

Receiving Report

Date: 14/3/31
 Supplier: B.E

Batch No: M 128650
 Dart P/O: 23496

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☒ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☒ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐

Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Rec'd | Quantity Short | Quantity Inspected | Quantity Rejected | Comment / NCR Number |
|-------------|-------------|------------------|----------------|----------------|--------------------|-------------------|----------------------|
| AN 3C37A | | 200 | 0 | 200 | | | |
| | | | | | | | |
| | | | | | | | |

Initials of Receiver

QC12

Production/Admin:

Date _____
 Received/Costing _____
 Initial _____

Location _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23495**

Purchase Order Date 3/24/2014

PO Print Date 3/24/2014

Page Number 1 of 7

Order From :

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

VU-BEA001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

M/D 86-36

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|-------------|--------------------------------------------------------------------|------------------------|--------------------------------------|----|--------------------------------|---------------|----------------|
| 1 | AN310-4 <i>372</i> | Nut | 4/2/2014 Yes 4/2/2014 | FN | 150.00 Each | \$0.65 | \$97.50 |
| Line Total: | | | | | | | \$97.50 |
| 2 | AN3C37A | BOLT | 4/2/2014 Yes 4/2/2014 | | 200.00 Each | \$3.60 | \$720.00 |
| Line Total: | | | | | | | \$720.00 |
| 3 | AN4-42A <i>359</i> | Bolt | 4/2/2014 Yes 4/2/2014 | | 100.00 Each | \$1.15 | \$115.00 |

144/3/27

200.00

SP14-3-27

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO23495**

Purchase Order Date 3/24/2014

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Page Number 4 of 7

Order From :

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

VU-BEA001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
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CANADA

Contact Name

Vendor Phone 305-925-2600

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Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Michael Gregoire

Customer POID

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10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

| | | | | | | | |
|----|---------------------|------------|--------------------------------|------------------|--------|--------------------|----------|
| | | | | | | Line Total: | \$75.00 |
| 11 | MS20822-3D ✓ 313 | ELBOW | 4/2/2014 FN Yes 4/2/2014 | 5.00 ✓ Each | \$6.10 | \$30.00 | |
| | | | | | | Line Total: | \$30.00 |
| 12 | MS21044-N08 316 | Nut | 4/2/2014 Yes 4/2/2014 | 250.00 ✓ Each | \$0.75 | \$187.50 | |
| | | | | | | Line Total: | \$187.50 |
| 13 | MS21069L3 317 | ANCHOR NUT | 4/2/2014 Yes 4/2/2014 | 100.00 ✓ Each | \$0.35 | \$35.00 | |
| | | | | | | Line Total: | \$35.00 |

Note:

3/24/2014



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Page Number 5 of 7

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USA

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10127-2607

Terms

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Currency

USD

FOB

FCA - (Free Carrier)

| | | | | | | | |
|----|------------------------------|----------|--------------------------------|---------------------------------------|---------|-------------|------------|
| 14 | MS21069L4 ✓ | Nutplate | 4/2/2014 Yes 4/2/2014 | 50.00 ✓ Each | \$1.00 | \$50.00 | |
| | | | | | | Line Total: | \$50.00 |
| 15 | MS21920-20 FA80T LG050 | Clamp | 4/2/2014 FN Yes 4/2/2014 | 225.00 ✓ Each 1/4/3/27 | \$7.50 | \$1,687.50 | |
| | | | | | | Line Total: | \$1,687.50 |
| 16 | MS21920-22 ✓ | Clamp | 4/2/2014 FN Yes 4/2/2014 | 200.00 ✓ Each | \$15.00 | \$3,000.00 | |
| | | | | | | Line Total: | \$3,000.00 |
| 17 | MS24694-S148 3-y | SCREW | 4/2/2014 Yes 4/2/2014 | 25.00 ✓ Each 1/4/3/27 Nec 16 | \$15.00 | \$375.00 | |

Note:

3/24/2014



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1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

Purchase Order ID PO23495

Purchase Order Date 3/24/2014

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Page Number 6 of 7

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Michael Gregoire

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Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Line Total:

\$375.00

18 MS27039-1-08 ✓

Screw

4/2/2014 FN

2,100.00 ✓

\$0.06

\$126.00

Yes

4/2/2014

Each

SP14-3-27

Line Total:

\$126.00

19 MS27039C1-08

SCREW

4/2/2014

2,000.00 ✓

\$0.30

\$600.00

Yes

4/2/2014

Each

144/3/27

Line Total:

\$600.00

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

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Purchase Order Date 3/24/2014

PO Print Date 3/24/2014

Page Number 7 of 7

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USA

VU-BEA001

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1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

20 71401-45

4/2/2014

0.00

\$0.00

No

Each

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

8814-3-27

Line Total:

\$0.00

PO Total:

\$7,535.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date: 3/24/2014

M. Gregoire



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

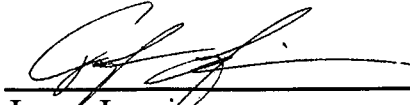
Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|-------------|-----------|-------------|----------------------------|-------|----------|----------|
| 1 | 150 | EA | AN310-4 | | 0502115-490 | GREER STOP NUT / SPS 27687 | | | |


Jason Lewis
Vice President of Quality

03/25/14

GREER STOP NUT

SPS 481 McNALLY DRIVE • NASHVILLE, TN 37211
TECHNOLOGIES

PREVENT FRAUD

Any alteration or misuse of this certificate, or any unauthorized rework or modification of the identified products voids all manufacturer's warranties, and may lead to civil damages and/or criminal penalties.

CUSTOMER NBR 01-0001-00427568-0001

B/E AEROSPACE CONSUMABLES
MANAGEMENT
9835 NW 14TH ST.
MIAMI, FL 33172

PACKING LIST

THE PRODUCTS THAT ARE COVERED BY THIS AGREEMENT ARE OF U.S. ORIGIN OR OTHERWISE SUBJECT TO U.S. EXPORT AND OTHER FOREIGN TRADE CONTROLS. THE EXPORT, DEEMED EXPORT, RE-EXPORT, OR RELEASE OF THESE PRODUCTS TO OTHER COUNTRIES OR PARTIES MAY REQUIRE THE PRIOR APPROVAL OF THE U.S. GOVERNMENT. DIVERSION OF THESE PRODUCTS FROM THE AUTHORIZED DESTINATION CONTRARY TO U.S. AND INTERNATIONAL LAW IS PROHIBITED. THE PURCHASER AGREES TO COMPLY WITH APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES, OTHER RELEVANT JURISDICTIONS, AND PERTINENT INTERNATIONAL ORGANIZATIONS PERTAINING TO THE EXPORT, DEEMED EXPORT, RE-EXPORT, OR RELEASE OF THESE PRODUCTS. ANY VIOLATIONS OF THIS CLAUSE, AS DETERMINED SOLELY BY SPS TECHNOLOGIES AND OR GREER STOP NUT, SHALL BE DEEMED A MATERIAL BREACH OF THIS AGREEMENT.

CLAIMS FOR GOODS MUST BE MADE ON RECEIPT OF GOODS. NO MATERIAL ACCEPTED FOR RETURN WITHOUT OUR PERMISSION.

PUBLISHED 05/29/13

ORDER NBR 081985-001

ORDER DATE 09/28/12

F/S # 081985001

PAGE 1

B/E AEROSPACE CONSUMABLES
MANAGEMENT (MIAMI)
P O BOX 025263
MIAMI, FL 33102-5263

| CUSTOMER P.O. | | TERMS | | SHIP FROM | SCHEDULE DATE | |
|------------------------|--------------|-------------|-------------|----------------|---------------|------|
| OKTE80 | | N | NET 30 DAYS | AI | 05/29/13 | |
| CARRIER CD/DESC | | CARRIER NBR | | FREIGHT | REG | TERR |
| TERK ANY TRUCKING ITEM | | COL COLLECT | | | 2751 | 52 |
| LNE | PRODUCT CODE | DESCRIPTION | | ALTERNATE CODE | QUANTITY | UM |

001 0502115

AN310-4 AN310-4
UNDER 150# SHIP FEDEX GROUND ACCT
#0331-0149-0 MARK COLLECT
OVER 150 LBS SHIP FED EX NATIONAL LTL
ACCT #081757
SHIPPING BOX WEIGHT LIMIT 40 LBS
CHEMICAL AND PHYSICAL CERTS
SHIP VARIANCE +/- 10%
TOTAL QUANTITY- 125000
ROHAN JOHNSON/FGH

125000 C

UNIT PRICE ACT QTY

133,343

| LOT NO. | QUANTITY + | AREA | WEIGHT | BOXES | PREPD | COLL. | CARRIER | BILL OF LADING | FREIGHT CHARGE |
|-------------|------------|------|--------|-------|-------|-------|---------|----------------|----------------|
| 0502115-470 | 43,845 | 3D3 | 8010 | 24 | | X | FedEx | | |
| 0502115-500 | 44,630 | 4E4 | | | | | | | |
| 0502115-490 | 40,308 | 4D5 | | | | | | | |

All parts are shipped free of mercury contamination. All damages exceeding price are excluded.

GREEN NYLON INSERT is a registered trademark of GREER STOP NUT

TR FREIGHT RECORD
3009 REV. 8/11

**GREER STOP NUT**

Greer Stop Nut
481 McNally Drive
Nashville, TN 37211

Phone: 615-832-8375
Fax: 615-331-5070
E-mail: greer@spstech.com

CERTIFICATE OF CONFORMANCE

Date of Certification: May 29, 2013

Sold To: B/E Aerospace Consumables Management
9835 NW 14th St
Miami, FL
33172

Purchase Order No: OKTR80

Customer Part No: AN310-4 Rev. 10 & NASM310 Rev. 1

Item No: 001

Greer Part No: F22SC310-0428 Nomenclature: Nut, Plain, Castellated

Lot No/Serial No: 0502115-490 (Ref. 0502116-10R) Qty. Manufactured: 47,588 Qty. Shipped: 40,868

Manufacturing Date: 4-23-13

Material: 1137 Material Specification: AMS 5024H, ASTM A108-07 Material Supplier: Nelsen Steel Company

Mill Heat No: 20216060 Greer Steel Date: CJ644J

Procurement Spec: FF-N-836E Threads: MIL-S-7742 Rev. D Am. 1

Proof Load: 4,080 lbs. Tested To: 4,080 lbs. Sample Size: 5

Non-Destructive Testing: Magnetic Particle Inspection Specification: ASTM E-1444-11 Sample Size: 29

Magnetic Particle Inspection in accordance with MT2000 Rev. 14 DTD 5-31-12 as modified by MT69811 Rev. 5 DTD 5-5-10

Surface Finish: Cadmium & Yellow Chromate Specification: AMS-QQ-P-416 Type II Class 2 Rev. C

The products identified on this certificate have been manufactured, tested and inspected in accordance with, and unless noted above, conforms in all respects to the applicable drawings, specifications and/or standards. Complete reports of physical and chemical tests are on file for on-site examination. If no specified customer quality level is required, goods conform to seller's quality level. Reproduction except in full is strictly prohibited without written approval of Greer Stop Nut. All damages exceeding price are excluded. Mercury free clause: We certify that no possibility exists for mercury contamination to occur during manufacture, assembly or testing of parts on this contract. This document relates only to the items tested. Parts were manufactured in the United States of America. Sample plans are carried out to current standard/specification revision.

G and Green Nylon are Trademarks of Greer Stop Nut



Fran Glover
Quality Assurance Coordinator



Nelsen Steel Company
9400 W. Belmont Ave.
Franklin Park, IL 60131-2898
Tel: (847) 671-9700 Fax: (847) 671-6833

PRODUCT CERTIFICATION

HEAT-LOT NUMBER 20216060 WORK ORDER 215347

SUPPLIER Charter Steel SALES ORDER / RLS 095673 / 4

MELT SOURCE/NAFTA

Charter Steel / Yes

COUNTRY OF ORIGIN

U.S.A.

CAST METHOD

Strand (Billet)

SOLD TO

Greer Stop Nut Inc.
481Mc Nally Drive
Nashville, TN 37211
USA

RECEIVED
CS 244
K.S. 8/23/12

| | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|-------------------------------|-----------------------------|-------|-----|-----|-----|-------|
| CUSTOMER P.O. 0012174652 | CUSTOMER PART 0r23043 | QUANTITY 9,865 LBS | COILS LADING NO 3 00048813 | SHIPMENT DATE 08/20/2012 | | | | | |
| SPECIFICATION C04340H1137 .4340, Shape = Cold Drawn Hexagon, Grade = 1137, Length = 12' R, Grain Prac = Coarse Grain Practice, Silicon = .10 MAX, Restrictd Chemistry = Charter Steel Only, Quality Level = STD, Testing = Mag Tested, Mechanical Tests, AMS 5024 Chem & Mech Only, Bundle max = 4000 lbs. Min. Red. Ratio 68:1 | | | | | | | | | |
| CERTIFICATION REQUIREMENTS AMS 5024H Chem and Mech. Only | | | | | | | | | |
| Chemical | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Mo | Cr | Te |
| .39 | 1.41 | .008 | .111 | .08 | .12 | .05 | .01 | .08 | ----- |
| Al | Cb | N | Sn | V | Ti | | | | |
| .001 | .001 | ----- | ----- | .001 | ----- | | | | |
| Mechanical | | | | | | | | | |
| TEST | UNITS | HIGH | LOW | AVERAGE | | | | | |
| Tensile | PSI | 137000 | 137000 | 137000 | | | | | |
| Yield Strength | PSI | 113000 | 113000 | 113000 | | | | | |
| Elongation In 2" | % | 14 | 14 | 14 | | | | | |
| Reduction of Area | % | 49 | 49 | 49 | | | | | |
| Brinell Hardness | Brin Hds | 247 | 247 | 247 | | | | | |
| <p>We certify that the above material during its processing or while in our possession was not exposed to mercury or any other metal alloy that is liquid at ambient temperature; that no welding or weld repair was performed on said material, that no Class I or Class II ozone depleting chemicals (ODC's) were used in the manufacture of said material or in any of its components or packaging, and that the finished product described herein was manufactured by Nelsen Steel and Wire L.P. and/or its agents in the United States of America. We further certify that all material cold drawn by Nelsen Steel and Wire L.P. meets or exceeds the requirements of ASTM A108-07 (Level 1) and/or SAE J403 for carbon steels and/or SAE J404 for alloy steels and their referenced documents (including ASTM A29-11a and ASTM A576-90b, 2006) as a minimum. Also, all chemical and mechanical testing is performed by laboratories that have received or have applied for certification to ISO/IEC 17025-1999. Nelsen Steel's Quality Management System is registered to ISO 9001: 2008 via third party assessment. Manufactured in the United States of America.</p> <p>End of Certification</p> | | | | | | | | | |

We certify that the above metallurgical report of chemical analysis and/or mechanical properties is a true and correct statement of the information relating to the product(s) listed above and conforms to the applicable specifications as indicated on your order. WE FURTHER CERTIFY that the material described herein was monitored and controlled during manufacture in accordance with the "Nelsen Steel Company Quality Assurance Manual" in its most recent revision prior to our issuing date shown.

Certification given and subscribed

by:

Kenneth A. Koeppl, Quality Manager



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Nelson Steel Co.
9400 Belmont Ave.
Franklin Park, IL 60131
Kind Attn: Ken Koeppl

| | |
|---------------------|-------------------------|
| CUSTOMER | 55645 |
| CUSTOMER P.O. | H05312R1137 |
| Charter Part Number | 70033937 |
| Part | 20216060 |
| Size | 2033242 |
| Grade | 1137 R CGP CG FMQ 17/32 |
| Process | HR |
| Rolling Size | 17/32 |

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies these requirements.

Lab Code: 125544

Test Results of Heat Lot# 20216060

| | | | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CHEM | C | MN | P | S | SI | NI | CR | MO | CU | SN | V |
| %WT | .39 | 1.41 | .008 | .111 | .08 | .05 | .08 | .01 | .12 | .009 | .001 |
| | AL | N | B | TI | CA | NB | SB | AS | PB | | |
| | .001 | .0070 | .0001 | .001 | .0018 | .001 | .002 | .005 | .002 | | |
| JOMNY(HRC) | JOM01 | JOM02 | JOM03 | JOM04 | JOM05 | JOM06 | JOM07 | JOM08 | JOM09 | JOM10 | JOM12 |
| | 56 | 64 | 56 | 40 | 33 | 28 | 27 | 26 | 25 | 24 | 21 |
| | JOM14 | JOM16 | | | | | | | | | |
| | 21 | 20 | | | | | | | | | |

JOMNY SAMPLE TYPE ENGLISH = C DI = 1.73
CHEM. DEVIATION EXT. = GREEN *

of Tests

Test Results of Rolling Lot# 2033242

Min Value

Max Value

Mean Value

NUM DECARB = 1 AVE DECARB = .003
REDUCTION RATIO = 221:1

Specifications:

Manufactured per Charter Steel Quality Manual Rev 9.08-01-08
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = 1137-512 Revision = 5 Dated = 08-AUG-11

Additional Comments:

Charter Steel
Cuyahoga Heights, OH, USA



Page 1 of 1

This MTR supersedes all previously
dated MTRs for this order

Janice Barnard
Janice Barnard
Manager of Quality Assurance
07/25/2012

Rem: Load1, FaxQ, MailQ

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States meeting DFAR's compliance.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

| Certificate Number | Lab Code | Laboratory | | Address |
|--------------------|----------|------------|------------------------------------------------------------------------|---------------------------------------------------|
| 0358-01 | 7388 | CSSM | Charter Steel Melting Division | 1653 Cold Springs Road, Saukville, WI 53080 |
| 0358-02 | 8171 | CSSR/CSSP | Charter Steel Rolling/Processing Division | 1658 Cold Springs Road, Saukville, WI 53080 |
| 0358-03 | 123633 | CSFP | Charter Steel Ohio Processing Division | 6255 US Highway 23, Risingsun, OH 43457 |
| 0358-04 | 125544 | CSCM/CSCR | Charter Steel Cleveland | 4300 E. 49th St., Cuyahoga Heights, OH 44125-1004 |
| | | -- | Subcontracted test performed by laboratory not in Charter Steel system | |

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

| Test | Specification | CSSM | CSSR/CSSP | CSFP | CSCM/CSCR |
|----------------------------------|-------------------------------|------|-----------|------|-----------|
| Chemistry Analysis | ASTM E415; ASTM E1019 | X | | | X |
| Macroetch | ASTM E381 | X | | | X |
| Hardenability (Jominy) | ASTM A255; SAE J405; JIS G506 | X | | | X |
| Grain Size | ASTM E112 | X | X | X | X |
| Tensile Test | ASTM E8; ASTM A370 | | X | X | X |
| Rockwell Hardness | ASTM E18; ASTM A370 | X | X | X | X |
| Microstructure (spheroidization) | ASTM A892 | | X | X | |
| Inclusion Content (Methods A, E) | ASTM E45 | | X | | X |
| Decarburization | ASTM E1077 | | X | X | X |

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/13.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers.
 - Both sides of all pages must be reproduced in full.
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Sales Order number) to the customer's purchase order. Both order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.





B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|-------------|-----------|------------|--------------------|-------|----------|----------|
| 17 | 16 | EA | MS24694S148 | | R33547 | PILGRIM SCREW (RI) | 47253 | | |


Jason Lewis
Vice President of Quality

03/25/14

PILGRIM

Screw Corporation

PACKING LIST

ARIZONA - 480-917-2500

SHIPPED FROM
259 DEXTER STREET and 120 SPRAGUE STREET
PROVIDENCE, RI 02907

RHODE ISLAND - 401-274-4090

6/19/2013



PAC134857

BE
BILL TO: B/E AEROSPACE
CONSUMABLES MANAGEMENT
MIAMI FL 33102-5263
P.O. BOX 025263

SHIP TO: B/E AEROSPACE
CONSUMABLES MANAGEMENT
9835 NW 14TH STREET
MIAMI, FL 33172

OUR ORDER #
ORD113487

TERMS
Net 30*DNI*033101490

FREIGHT SHIP VIA
C FedEx-Grnd-Recipient

SHIPPING DATE
5/31/2013

CUSTOMER PO #:



ONEB58

QTY U/M PART # DRAWING #



171

EA



MS24694S148

NASM24694

Revision: 2

5/16-24 X 1-1/32 PH 100F ALLOY/Cd2

NOT BEFORE

M2M40NEB58

LOT#:

R33547 QTY: 171.00 pc#428

1 CTNS, TOTAL WT. 5.35 LBS WITH 0 ON BACKORDER

Compliant with DFARS 252-225-7009 Restriction on Acquisition of Certain

Articles Containing Specialty Metals

MFR C OF C

CHEM AND PHYS

MATERIAL AND PROCESS CERTS

DFARS COMPLIANT 252. 225-7009

CLAUSES A, A.1, A.3, B, C, E, H, P, U, V APPLY

LATEST REV 2

NO OVERSHIPMENTS

IF UNDER 150 LBS SHIP FEDEX GROUND ACCT# 0331-0149-0 MARK:

CERTIFICATE OF COMPLIANCE

We hereby certify that all items delivered on this invoice comply with all applicable drawing, specification, and purchase order requirements. Evidence of such is on file for review for a minimum of 10 years. All products manufactured by Pilgrim Screw are of domestic origin and have not come in contact with mercury while in our possession. Also all special processes were performed by approved sources at the time of manufacture. Shortage claims must be made within (5) days after receipt of the goods. Quality claims must be made within (30) days after receipt of the goods. Returns will not be accepted without a 'Return Material Authorization' number. All goods returned must have the freight prepaid.

MADE IN THE USA

PILGRIM

Screw Corporation

PACKING LIST

ARIZONA - 480-917-2500

SHIPPED FROM
259 DEXTER STREET and 120 SPRAGUE STREET
PROVIDENCE, RI 02907

RHODE ISLAND - 401-274-4090

6/19/2013



PAC134857

BE
BILL TO: B/E AEROSPACE
CONSUMABLES MANAGEMENT
MIAMI FL 33102-5263
P.O. BOX 025263

SHIP TO: B/E AEROSPACE
CONSUMABLES MANAGEMENT
9835 NW 14TH STREET
MIAMI, FL 33172

| | | | |
|----------------|----------------------|------------------------|---------------|
| OUR ORDER # | TERMS | FREIGHT SHIP VIA | SHIPPING DATE |
| ORD113487 | Net 30*DNI*033101490 | C FedEx-Grnd-Recipient | 5/31/2013 |
| CUSTOMER PO #: | | | |
| | ONEB58 | | |

QTY U/M PART # DRAWING #
COLLECT
IF OVER 150 LBS, SHIP FEDEX FREIGHT ECONOMY ACCT 018757
DO NOT INSURE OR DECLARE A VALUE FOR THIS SHIPMENT
Schedule B#: 7318159000
ECCN #: 9A991d "NLR"

SHIPPING INSTRUCTIONS: LABEL ON OUTSIDE OF BOX

HONEYWELL SOURCE ACCEPTED:

STAMP IMPRESSION

DATE:

5/31/2013

****BOXES MUST NOT EXCEED 40 LBS EACH****

CERTIFICATE OF COMPLIANCE

We hereby certify that all items delivered on this invoice comply with all applicable drawing, specification, and purchase order requirements. Evidence of such is on file for review for a minimum of 10 years. All products manufactured by Pilgrim Screw are of domestic origin and have not come in contact with mercury while in our possession. Also all special processes were performed by approved sources at the time of manufacture. Shortage claims must be made within (5) days after receipt of the goods. Quality claims must be made within (30) days after receipt of the goods. Returns will not be accepted without a 'Return Material Authorization' number. All goods returned must have the freight prepaid.

MADE IN THE USA



**Pilgrim
Screw**
CORPORATION

Established 1932

CHEMICAL AND PHYSICAL CERTIFICATE



SOLD TO

B/E AEROSPACE
CONSUMABLES MANAGEMENT
MIAMI FL 33172

MADE IN THE USA

CAGE CODE: 47253

DOCUMENT # PSQR0001 REV 4

MANUFACTURED BY

PILGRIM SCREW CORPORATION
120 SPRAGUE STREET
PROVIDENCE RI 02907
USA

TEL. 401-274-4090 FAX. 401-861-9890

CUSTOMER PO # CONTRACT #
ONEB58

PACKING LIST #
PAC134857

PURCHASE QTY
171

LOT # / JOB #
R33547

MANUFACTURE DATE
4/16/2013

CERTIFICATION DATE
4/18/2013

RAW MATERIAL HEAT #
553390

MATERIAL GRADE
UNS G41300

RAW MATERIAL SOURCE
WIRETECH/CHARTER

SPECIFICATION/PART# - DRAWING # - REVISION
MS24694S148 NASM24694 2

NOMENCLATURE/ITEM DESCRIPTION
5/16-24 UNF-3A X 1-1/32 PH 100' FL HD MACH SCREW

PROCUREMENT SPECIFICATION
NASM7839

THREAD SPECIFICATION
MIL-S-7742D AMD 1

MATERIAL SPECIFICATION
MIL-S-6758B

HEAT TREAT SPECIFICATION
AMS-H-6875B/AMS 2759/1E

FINISH SPECIFICATION
AMS-QQ-P-416C TYPE II CLASS 3

NOTES COMPLIANT WITH DFARS252.225-7009

QA TEST SUMMARY

OTHER TESTS

UTLIMATE TENSILE LBS / P.S.I.
8884/153127

MAGNETIC PERMEABILITY
N/A

HEAD STRUCTURE

DECARBURIZATION

MAGNETIC PARTICLE INSP.

HARDNESS
28-32 HRC

YIELD LBS / P.S.I.
N/A

TORQUE IN / LBS
N/A

SHEAR LBS / P.S.I.
N/A

Test data will be on file for a least 10 years from the date of manufacture, or as agreed upon in the contract. This lot has been produced, sampled, tested, inspected, and marked in accordance with all contract and specification requirements, and the material complies with all the contract and specification requirements. The product specified herein was not in contact with Mercury while in our possession. Class 1 ozone-depleting substances of the clean air amendment of 1990 were not used in the design, manufacture, or test of the item

Electronically counted quantity is within +/- 1% Specified.

Rafael R. C.

PILOGRAM
P



WireTech, Inc.

8440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Pilgrim Screw
259 Dexter Street
Providence, RI 02907
USA

WORK ORDER
72321R

CERTIFICATION

HEAT NO.
553390
SALES ORDER / RLS
832643 / 2
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

| | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|---------------|-----------------------|-----------------------------|-----|-----|-----|
| CUSTOMER P.O. 54079 | CUSTOMER PART | QUANTITY 1,076 Lbs | CARRIERS 1 | LADING NO 00081617 | SHIPMENT DATE 01/28/2010 | | | |
| SPECIFICATION P144130-103120A A-4130, AQ, SKFG, CHQ WIRE, SEAM & DECARB FREE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.311/0.313 Specifications: AMS 2301H, AMS 6370M, MIL-S6758B AMS 6768 | | | | | | | | |
| CERTIFICATION REQUIREMENTS | | | | | | | | |
| Chemical Properties | | | | | | | | |
| C | Si | Mn | P | S | Cu | Ni | Cr | Mo |
| .30 | .26 | .55 | .007 | .010 | .18 | .19 | .89 | .21 |
| Physical Properties | | | | | | | | |
| Grain Size Jominy 1 Jominy 2 Inclusions Macro Cleanliness Mill Source 6 J5=45 J8=37 S2-R1-C2 GOOD F&S=0 Charter | | | | | | | | |
| Country of Origin USA - DFAR Compliant | | | | | | | | |
| Mechanical Properties | | | | | | | | |
| TEST | UNITS | Results | | | | | | |
| Tensile Strength | KSI | 77.6 | | | | | | |
| Yield Strength | KSI | 65.9 | | | | | | |
| % Elongation | % | 32 | | | | | | |
| % Reduction of Area | % | 68.4 | | | | | | |
| Rockwell Hardness B Scale | HRB (s) | 82 | | | | | | |
| Decarb (Total) | In | 0.00 | | | | | | |

Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material not to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. "The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47."

REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.

Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 107, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Mill Source results. Transcribed from mill certificates. HRB(S) are hardness results performed with a 1/16" steel ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation.

TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.

Material is free of mercury, radium, or alpha contamination.



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

EMAIL

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

Wiretech Incorporated
6440 East Canning Street
Los Angeles, CA 90040-
Attn: Janice Duran

| | |
|---------------------|-----------------|
| Cust. P.O. | 6225 |
| Cust Part# | 4130C1A130-C |
| Charter Sales Order | 267902 |
| Heat # | 553390 |
| Ship Lot # | 555924 |
| Grade# | 4130 R SK FG AQ |
| Process | SA |
| Finish Size | 33/64 |

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements.

Test Results of Heat Lot# 553390

Lab Code: 7388

OUTS. MELT SOURCE HEAT NUM. = N/R

| | | | | | | | | | | | |
|-----------|-------|--------|--------|-------|-------|------|------|------|------|-------|-------|
| Chemistry | C | MN | P | S | SI | NI | CR | MO | CU | SN | V |
| Wt% | 0.30 | 0.55 | 0.007 | 0.010 | 0.260 | 0.19 | 0.89 | 0.21 | 0.18 | 0.008 | 0.001 |
| | AL | N | B | TI | NB | | | | | | |
| | 0.025 | 0.0070 | 0.0001 | 0.001 | 0.001 | | | | | | |

| | | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Jominy (HRC) | JOM01 | JOM02 | JOM03 | JOM04 | JOM05 | JOM06 | JOM07 | JOM08 | JOM09 | JOM10 | JOM11 | JOM12 |
| | 53 | 52 | 51 | 49 | 45 | 41 | 38 | 37 | 35 | 34 | 32 | 32 |
| | JOM13 | JOM14 | JOM15 | JOM16 | JOM18 | JOM20 | JOM22 | JOM24 | JOM26 | JOM28 | JOM30 | JOM32 |
| | 32 | 31 | 30 | 30 | 28 | 29 | 28 | 28 | 28 | 27 | 27 | 27 |

JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01

CHEM. DEVIATION EXT.-GREEN = N/R

MACRO ETCH SURFACE = 2 MACRO ETCH RANDOM = 1 MACRO ETCH CENTER = 1

AMS 2301 FRQ AVE = 0.00 AMS 2301 FRQ IND = 0.00

AMS 2301 SEV AVE = 0.00 AMS 2301 SEV IND = 0.00

Test Results of Rolling Lot # 400634

MAX ALLOWABLE DEFECT = 0.0000

QC DEVIATION EXT.-GREEN = N/R

| | # of Tests | Min Value | Max Value | Mean Value | |
|-----------------------|------------|-----------|-----------|------------|-----------------------|
| TENSILE (KSI) | 1 | 75.2 | 75.2 | 75.2 | TENSILE LAB = 0358-02 |
| REDUCTION OF AREA (%) | 1 | 70 | 70 | 70 | RA LAB = 0358-02 |

NUM DECARB = 1 FREE FERRITE DECARB = 0.000 FREE FERR & PARTIAL DECARB = 0.001

CP SPHERO % LAB = 0358-02 NUM SPHERO = 1 SPHERODIZATION (%) = 80.0

QC DEVIATION EXT.-PROCESSED = N/R

Specifications:

Manufactured per Charter Steel Quality Manual Rev 8, 12-05-07

Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:

Customer Document = COP 3010

Revision = M Dated = 12-MAR-2003

Additional Comments:

MEETS REQUIREMENTS OF SPECIFICATIONS AMS6370M/AMS2301J

Charter Steel
Saukville, WI, USA



Janice Barnard
Janice Barnard
Manager of Quality Assurance
08/18/2008

Fax number: (323) 721-2738

Rem: Load1,Mail0,Fax1

Page 1 of 1

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

| Certificate Number | Lab Code | Laboratory | | Address |
|--------------------|----------|------------|------------------------------------------------------------------------|---------------------------------------------------|
| 0358-01 | 7388 | CSMD | Charter Steel Melting Division | 1653 Cold Springs Road, Saukville, WI 53080 |
| 0358-02 | 8171 | CSRD/CDPD | Charter Steel Rolling/Processing Division | 1658 Cold Springs Road, Saukville, WI 53080 |
| 0358-03 | 123633 | P4 | Charter Steel Ohio Processing Division | 6255 US Highway 23, Risingsun, OH 43457 |
| 0358-04 | 125544 | CSC | Charter Steel Cleveland | 4300 E. 49th St., Cuyahoga Heights, OH 44125-1004 |
| 358.05 | 128003 | CSDT | Charter Steel Detroit | 23860 Sherwood Ave. Center Line, MI 48015 |
| . | . | -- | Subcontracted test performed by laboratory not in Charter Steel system | |

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

| Test | Possible Laboratory | Specification |
|----------------------------------------------|--------------------------------|--------------------------------|
| Chemistry Analysis | CSMD, CSC | ASTM E415; ASTM E1019 |
| X-ray Fluorescence Stainless and Alloy Steel | CSC | ASTM E572 |
| Macroetch | CSMD, CSC | ASTM E381 |
| Hardenability (Jominy) | CSMD, CSC | ASTM A255; SAE J406; JIS G0561 |
| Grain Size | CSMD | ASTM E112 |
| Tensile Test | CSRD/CSPD, P4, CSC, CSDT | ASTM E8; ASTM A370 |
| Rockwell Hardness | CSMD, CSRD/CSPD, P4, CSC, CSDT | ASTM E18; ASTM A370 |
| Microstructure (spheroidization) | CSRD/CSPD, P4 | ASTM A892 |
| Inclusion Content (Methods A, E) | CSRD/CSPD, CSC | ASTM E45 |

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/09.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Purchase Order number) to the customer's purchase order. Both Purchase Order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.



Hayes Heat Treating Certification

Order No.: 79417

Date: 03/27/2013

Entry Date: 03/09/2013

Page: 1 of 1

To:

Pilgrim Screw Corporation 2/9
120 Sprague Street

Purchase Order No.: 65753

Packing List No.:

Providence RI 02907

Material: 8740

Lockheed Martin Vendor Code LM0012655
United Technologies Vendor Code S02609

Honeywell Vendor Code D10013
Boeing Vendor Code 635554

| Quantity | Part Number / Part Name / Part Description | Pounds |
|----------|--------------------------------------------|--------|
| 1,815 | MS24694S148 5/16-24 x 1-1/32 R33547 | 41 |

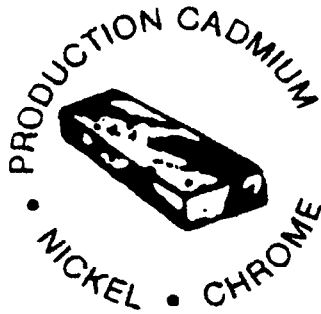
Vacuum harden, oil quench and air temper to obtain a hardness of 26-32 HRC in accordance with AMS-H-6875B and AMS2759/1E.

| Insp. Type | Scale | Minimum | Maximum | Number | Other |
|-------------------------------------------------|-------|---------|---------|--------|-------------------|
| Customer Requirements: | | | | | |
| Final | HRC | 27. | 32. | | |
| Verify Process | | | | | |
| Results: | | | | | |
| Final | HRC | 29. | 30. | | Sample size 8 pcs |
| Processed to the specification. | | | | | |
| Verify Process | | | | | |
| Chart (s) Verified, Processed To Specification. | | | | | |

All heat treatment processing performed on this order was accomplished using equipment that meets the requirements of AMS 2750. All heat treatment operations were accomplished in accordance with the requested/required heat treatment specification and all required verifications tests have been performed and documented. No unauthorized changes or deviations to required heat treatment specifications or procedures have been performed. Hardness inspection is in accordance with ASTM E18 and/or ASTM E384. All processes are Mercury free. Sample Inspection is in accordance with ANSI/ASQ Z1.4.

ISO 9001:2008 Certification 10-1427R
AS 9100 Certification No. 10-1427R
Cage/NCage Code #27790
Nadcap Certification #3162152413


Ted W. Yeaw
Quality Technician
Hayes Heat Treating Inc.



New Method Plating Co., Inc.

QUALITY
MANAGEMENT
SYSTEM
ISO 9001:2000
AS9100 REV. B
CERTIFIED

Established 1931



43 Hammond St.
Worcester, MA 01610
Phone 508.754.2671
Fax 508.754.1981
www.newmethodplating.com

CERTIFICATE OF COMPLIANCE

COMPANY PILGRIM SCREW CORP.

DATE 4/8/13

PO#

LOT#

QUANTITY

66013

R33547

1,815

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III, Type II (Clear___ Yellow X Black___)

Hardness: 27-32 HRC

☒ NO BAKE

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 3 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

Thickness Test Results

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00028 Avg .00032

Adhesion Test Results

Accept ☒ Reject ☐ Inspected by: Ralph J. Capalbo Jr.

Certification

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

Signed: Ralph J. Capalbo Jr.

Ralph J. Capalbo Jr.

Title: President

Date: 4-9-13

CERTIFICATION OF COMPLIANCE
INSPECTION REPORT

MET-L-TEST LABORATORY

NADCAP APPROVED FACILITY

115 BROWNING STREET

STRATFORD, CT 06615

TELEPHONE (203) 377-2429

FAX (203) 377-0517

WEBSITE: WWW.METLTESTLABORATORY.COM

MAGNETIC PARTICLE
PENETRANT INSPECTION
RADIOGRAPHIC INSPECTION

CUSTOMER: Pilgrim Screw Corporation
259 Dexter Street
Providence, RI 02907

| LAB NO. | CUSTOMER P.O. | DATE SHIPPED | DATE INVOICE | INVOICE NO. |
|---------|---------------|--------------|--------------|-------------|
| V7878 | 66085 | 04-12-13 | | V7878 |

| PART NO. | DESCRIPTION | QUANTITY |
|------------------|-------------|----------|
| P/N MS24694S148 | R33547 | *32* PCS |
| P/N MS24694S150 | R33395 | *32* PCS |
| P/N MS27039-5-07 | R33375 | *32* PCS |

M.P.I. PER ASTM E1444-12. I.A.W. NASM7839

MAGNETIC PARTICLE INSPECTION

MAGNETIC PARTICLE TECHNIQUES ARE ON FILE AT MET-L-TEST FOR REVIEW.

RADIOGRAPHIC INSPECTION

RADIOGRAPHIC INSPECTION TECHNIQUES ARE ON FILE AT MET-L-TEST FOR REVIEW.

PENETRANT INSPECTION

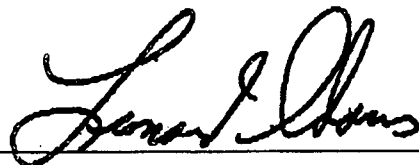
PENETRANT
EMULSIFIER
DEVELOPER

PENETRATING TIME 30 MINUTES
EMULSIFYING TIME 2 MINUTES MAX.
DEVELOPING TIME 15 MINUTES
NO PRE-PENETRANT ETCH DONE AT THIS FACILITY

INSPECTION RESULTS

REJECTED: 0 PIECE(S) THAT SHOW INDICATIONS CONSIDERED DETRIMENTAL.

COMMENTS: *96* PCS ACCEPTED @ M.P.I.



MLT
MC

III 04-12-13

INSPECTED BY

LEVEL DATE

Lawrence Baldelli

NDT LEVEL III

WHITE/YELLOW COPIES: CUSTOMER, PINK COPY: MLT FILES



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LNE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|------|----------|-----|-------------|-----------|-------------|----------------------|-------|----------|----------|
| 13 | 100 | EA | MS21069L3 | | 5861600-000 | ALCOA KAYNAR FULLERT | 15653 | | |



Jason Lewis
Vice President of Quality

03/25/14

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948072981

Page: 1

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

| Pack Date | Order # | Cust PO | Ship Via | Weight | Pkgs # |
|-----------|---------|---------|----------|--------|--------|
| 10/07/13 | F437896 | OJRA52 | | | |

| Line/Rel | Item | U/M | Qty Ordered | Qty To Pack |
|----------|--------------------|-----|-------------|-------------|
| 3-1 | BA0650 MK1000-3 | | 82 200 | |

C/I: MS21069L3
PO Item #: 3

*** TSO C-148 APPVD PART. TSO LABEL REQUIRED ***

Est Date: 08/19/13

Pay Date: 08/12/13

Lot: 5861600-000

COO:UNITED STATES

Waybill:

ECCN:9A991 Schedule-B Number:7318.16.0000

HTS-Code:7318.16.0085

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ

SHIP VIA : FED EX GRD

BUYER: CRISTINA SANCHEZ PHONE:

MATERIAL COMPLIES WITH DFARS 252.225-700

9 PREFERENCE FOR DOMESTIC SPECIALTY

ALCOA GLOBAL FASTENERS, INC.

Keynar Products: Cage Code 15653 • Eagle Products: Cage Code 66776 • Rosan Products: Cage code 66776

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING HEREON. FOR ITEMS CERTIFIED TO 8PS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948072981

Page: 2

Bill To: 5574
B/E AEROSPACE, INC.
P.O.BOX 025263
MIAMI FL 33102-5263
USA

Ship To: (14)
B/E AEROSPACE CONSUM MGMT
9835 NW 14TH ST
MIAMI FL 33172
USA

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

| Pack Date | Order # | Cust PO | Ship Via | Weight | Pkgs # |
|-----------|---------|---------|----------|--------|--------|
| 10/07/13 | F437896 | 0JRA52 | | | |

Line/Rel Item U/M Qty Ordered Qty To Pack

PACKING SLIP

METALS" WITH ITS ALTERNATE

***SHIP VIA FEDX GRD COLLECT ACCT# 0331-0149-0 IF 150 LBS OR MORE:SHIP FED EX FREIGHT ECONOMY COLLECT ACCT# 018757

DO NOT SHIP BY ANY OTHER WITHOUT PROPER WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.

** BAR CODE PER QAP 33 CLAUSE P REQUIRED

** QAP 33.0 REV F CLAUSES: A,B,C,E,H,P,U ,V. CLAUSE A.3 GENERAL TERMS APPLIES.

PER PO CHANGE NOTICE OK TO SHIP 66,000 I N JANUARY 2013 VB

4/26/13 UPDATED TO SHIP 17,800 PCS BY 04 /30/13 PER JESSICA. AA

chem & phys certs

ALCOA GLOBAL FASTENERS, INC.

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9835 NW 14TH ST
MIAMI FL 33172
USA

From:
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AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

| Pack Date | Order # | Cust PO | Ship Via | Weight | Pkgs # |
|-----------|---------|---------|----------|--------|--------|
| 10/07/13 | F437896 | 0JRA52 | | | |

| Line/Rel | Item | U/M | Qty Ordered | Qty To Pack |
|----------|--------------------|-----|-------------|-------------|
| 3-1 | BA0650 MK1000-3 | | 482 | 300 |

C/I: MS21069L3

PO Item #: 3

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Cust Date: 08/19/13

Kay Date: 08/12/13

Lot: 5861600-000

COO:UNITED STATES

Waybill:

ECCN:9A991 Schedule-B Number:7318.16.0000

HTS-Code:7318.16.0085

The export classification appears above. You are responsible for all related export license requirements.

MFG C OF C CHEM & PHYS TEST REPORT REQ

SHIP VIA : FED EX GRD

BUYER: CRISTINA SANCHEZ

PHONE:

MATERIAL COMPLIES WITH DFARS 252.225-700

9 PREFERENCE FOR DOMESTIC SPECIALTY

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

K452

10/8/13

MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

Kaynar Products: Cage Code 15653

Eagle Products: Cage Code 86776

Rosan Products: Cage code 86776

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CUSTOMER'S COPY

Alcoa Fastening Systems



Packing Slip



Packing Slip: 9948072981

Page: 2

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MIAMI FL 33172
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From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Order Contact:

| Pack Date | Order # | Cust PO | Ship Via | Weight | Pkgs # |
|-----------|---------|---------|----------|--------|--------|
| 10/07/13 | F437896 | OJRA52 | | | |

| Line/Rel | Item | Qty | Ordered | Qty To Pack |
|----------|------------------------------|-----|---------|-------------|
| | METALS WITH ITS ALTERNATE 1. | | | |

***SHIP VIA FEDX GRD COLLECT ACCT# 0331
0149-0 IF 150 LBS OR MORE:SHIP FED
EX FREIGHT ECONOMY COLLECT ACCT# 018757.

DO NOT SHIP BY ANY OTHER WITHOUT PROPER
WRITTEN AUTHORIZATION.

ALLOWABLE SHIPPING TOLERANCE = +0%-0 %.
** BAR CODE PER QAP 33 CLAUSE P REQUIRED

** QAP 33.0 REV F CLAUSES: A,B,C,E,H,P,U
,V. CLAUSE A.3 GENERAL TERMS
APPLIES.

PER PO CHANGE NOTICE OK TO SHIP 66,000 I
N JANUARY 2013 VB
4/26/13 UPDATED TO SHIP 17,800 PCS BY 04
/30/13 PER JESSICA. AA
chem & phys certs

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with the contract, drawing specifications, and other applicable documents. All required process certifications, chemicals and physical test reports are on file subject to examination. This document must not be reproduced except in full and relates only to the items tested.

Michele M. Varela
MICHELE M. VARELA
Quality Manager
Fullerton Operations

ALCOA GLOBAL FASTENERS, INC.

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Eagle Products: Cage Code 86776 • Rosan Products: Cage code 86776

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CUSTOMER'S COPY

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**Lot No.
5861600-000

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|-----------------------------------------------------|
| Supplier Item No. BA0650 | | Supplier Part No. MK1000-3 | |
| Interchange Part No. MK1000-3 Rev. N/C | | Interchange Part No. MS21069L3 Rev. 1 | |
| Manufactured Quantity 97300 | Mfg. Date | Generic Description NUT ANCHOR | Thread Size .1900-32 |
| HEAT TREAT AMS-H-6875 REV. B | | Plating AMS-QQ-P416C TYII CL III | |
| Lubrication AS5272E TY I | | NON-DESTRUCT ASTM E1444 REV. 12 SAMPLE | |
| PERFORMANCE NASM25027 REV. 1 | | | |
| Material Spec. # AMS 5085-H | Mill Heat No. NLPQ1208 | Control Heat No. CC19124 | Material Supplier CALSTRIP INDUSTRIES INC |
| Special Process Requirements: THREADS AND GAUGING PER AS8879 Rev.DR12 and ASME B1.3M SYS. 22 MIN EQUALS BKWY MAX EQUALS INST | | | |

TEST RESULTS

| TEST No. Description | JOM IN# | SAMPLE Number | RESULT Cycle | MINIMUM Value | MAXIMUM Value | PASS/ Fail | MINIMUM Requirement | MAXIMUM Requirement |
|-----------------------------------------------------|------------|------------------|-----------------|------------------|------------------|---------------|------------------------|------------------------|
| 1 - 010 TORQUE TEST MAX 18, MIN 2, CYCLES 1,7,15 | | 1 | 1 | 11.85 | 12.40 | | 2.00 | 18.00 |
| | | | 7 | 8.30 | 8.75 | | | |
| | | | 15 | 7.45 | 7.80 | | | |
| | | 2 | 1 | 10.70 | 12.40 | | | |
| | | | 7 | 7.10 | 6.80 | | | |
| | | | 15 | 5.05 | 4.85 | | | |
| | | 3 | 1 | 10.15 | 12.10 | | | |
| | | | 7 | 9.05 | 9.00 | | | |
| | | | 15 | 8.00 | 7.85 | | | |
| | | 4 | 1 | 10.75 | 11.05 | | | |
| | | | 7 | 7.35 | 7.50 | | | |
| | | | 15 | 6.55 | 6.30 | | | |
| | | 5 | 1 | 10.70 | 13.05 | | | |
| | | | 7 | 8.95 | 9.30 | | | |
| | | | 15 | 8.05 | 8.15 | | | |
| | | 6 | 1 | 11.40 | 12.90 | | | |
| | | | 7 | 8.20 | 8.00 | | | |
| | | | 15 | 7.60 | 7.40 | | | |
| | | 7 | 1 | 12.00 | 13.00 | | | |
| | | | 7 | 9.15 | 10.10 | | | |
| | | | 15 | 8.85 | 9.00 | | | |
| | | 8 | 1 | 12.95 | 13.60 | | | |
| | | | 7 | 9.25 | 8.85 | | | |

TEST RESULTS - Continued on next page.**THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED**

The product identified on this Certificate has been manufactured, tested and unless otherwise noted, conforms in all respects to the applicable drawings, specifications and standards. Complete reports of physical and chemical tests are on file for examination. If no specified customer quality level is required, goods conform to sellers quality level. All Damages Exceeding Price are Excluded. For items certified to BPS-N-70 alloy verification has been performed on parts with a date of manufacturing on or after January 1, 2001. Quality system sampling plan conforms to the requirement of QAP EQ001, QAP EQ002, QAP EQ003. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law.


MICHELE M. VARELA, QA MGR.

ALCOA GLOBAL FASTENERS, INC.

Rev. 12/02 Form 11199

SHIPPER#: 9948072981

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NO.

Page 2 of 3

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**

Lot No.

5861600-000Supplier Item No.
BA0650Supplier Part No.
MK1000-3**TEST RESULTS - Continued from previous page**

| ----- TEST ----- No. Description | UOM | SAMPLE Number | RESULT Cycle | MINIMUM Value | MAXIMUM Value | PASS/ Fail | MINIMUM Requirement | MAXIMUM Requirement |
|-------------------------------------------------|-----|------------------|-----------------|------------------|------------------|---------------|------------------------|------------------------|
| 3 - 020 TENSILE TEST bolt & nut thd stripped | LBS | 9 | 15 | 6.95 | 6.50 | | 2460.00 | |
| | | | 1 | 10.95 | 12.40 | | | |
| | | | 7 | 9.25 | 8.85 | | | |
| | | 10 | 15 | 6.95 | 6.50 | | | |
| | | | 1 | 14.90 | 15.00 | | | |
| | | | 7 | 9.70 | 9.60 | | | |
| | | 11 | 15 | 7.75 | 7.60 | | | |
| | | | 1 | 12.00 | 12.30 | | | |
| | | | 7 | 9.70 | 10.70 | | | |
| | | 12 | 15 | 7.45 | 6.55 | | | |
| | | | 1 | 10.65 | 12.80 | | | |
| | | | 7 | 8.65 | 8.65 | | | |
| | | 13 | 15 | 6.80 | 6.35 | | | |
| | | | 1 | 8.45 | 10.00 | | | |
| | | | 7 | 7.75 | 7.95 | | | |
| | | 14 | 15 | 6.85 | 6.45 | | | |
| | | | 1 | 9.65 | 12.05 | | | |
| | | | 7 | 8.05 | 8.05 | | | |
| | | 15 | 15 | 7.50 | 7.40 | | | |
| | | | 1 | 11.00 | 12.10 | | | |
| | | | 7 | 8.85 | 8.75 | | | |
| | | | 15 | 7.50 | 7.30 | | | |
| | | | 1 | 4000.00 | | | | |
| | | | 2 | 2600.00 | | | | |
| | | | 3 | 2600.00 | | | | |
| | | | 4 | 2600.00 | | | | |
| | | | 5 | 2600.00 | | | | |
| | | | 6 | 2600.00 | | | | |
| | | | 7 | 2600.00 | | | | |
| | | | 8 | 2600.00 | | | | |
| | | | 9 | 2600.00 | | | | |
| | | | 10 | 2600.00 | | | | |
| | | | 11 | 2600.00 | | | | |
| | | | 12 | 2600.00 | | | | |
| | | | 13 | 2600.00 | | | | |
| 4 - 050 EMBRITTLEMENT 23 HOURS | HRS | 14 | 1 | 2600.00 | | Pass | | |
| | | 15 | 1 | 2600.00 | | Pass | | |
| | | 1 | 1 | | | Pass | | |

TEST RESULTS - Continued on next page**THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL AND RELATES ONLY TO THE ITEMS TESTED**

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Page 3 of 3

**Alcoa
Fastening
Systems**Aerospace Products
Fullerton Operations
800 S.STATE COLLEGE BLVD
FULLERTON, CA 92831**TEST REPORT**

8191657

Lot No.

5861600-000

Supplier Item No.
BA0650Supplier Part No.
MK1000-3**TEST RESULTS - Continued from previous page.**

| ----- TEST ----- No. Description | UOM | SAMPLE Number | RESULT Cycle | MINIMUM Value | MAXIMUM Value | PASS/ Fail | MINIMUM Requirement | MAXIMUM Requirement |
|-------------------------------------|-----|------------------|-----------------|------------------|------------------|---------------|------------------------|------------------------|
| 5 - 080 PUSH-OUT MIN. 100 LBS. | LBS | 4 | 1 | | | Pass | | |
| | | 5 | 1 | | | Pass | | |
| | | 6 | 1 | | | Pass | | |
| | | 7 | 1 | | | Pass | | |
| | | 8 | 1 | | | Pass | | |
| | | 9 | 1 | | | Pass | | |
| | | 10 | 1 | | | Pass | | |
| | | 1 | 1 | 100.00 | | | 100.00 | |
| | | 2 | 1 | 100.00 | | | | |
| | | 3 | 1 | 100.00 | | | | |
| | | 4 | 1 | 100.00 | | | | |
| | | 5 | 1 | 100.00 | | | | |
| | | 6 | 1 | 100.00 | | | | |
| | | 7 | 1 | 100.00 | | | | |
| | | 8 | 1 | 100.00 | | | | |
| | | 9 | 1 | 100.00 | | | | |
| | | 10 | 1 | 100.00 | | | | |
| | | 11 | 1 | 100.00 | | | | |
| | | 12 | 1 | 100.00 | | | | |
| | | 13 | 1 | 100.00 | | | | |
| | | 14 | 1 | 100.00 | | | | |
| | | 15 | 1 | 100.00 | | | | |
| 6 - 110 HARDNESS 46-42 HRC | HRC | 1 | 1 | 43.00 | 44.00 | | | |
| 10 - 113 Hardness (HR15N) | - | 1 | 1 | (81.10) | (82.50) | | | |

| | | | |
|-------------------------|----------------------------------|--------------------------------------|------------------------------------|
| Component # 1 | Lot Number 5851591-000 | Supplier Part No. 90411-3B | Supplier Item No. HAE660 |
|-------------------------|----------------------------------|--------------------------------------|------------------------------------|

| | | | |
|-----------------------|------------------------------|---------------------|-------------|
| Manufactured Quantity | Mfg. Date 07/03/13 | Generic Description | Thread Size |
|-----------------------|------------------------------|---------------------|-------------|

| | | | |
|---------------------------------------|----------------------------------|------------------------------------|-----------------------------------------------------|
| Material Spec. # AMS 5085-H | Mill Heat No. NLPQ1208 | Control Heat No. CC19124 | Material Supplier CALSTRIP INDUSTRIES INC |
|---------------------------------------|----------------------------------|------------------------------------|-----------------------------------------------------|

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MICHELE M. VARELA, QA MGR.

ALCOA GLOBAL FASTENERS, INC.

Rev. 12/02 Form 11109

SHIPPER#: 9948072981

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CERTIFIED TEST REPORT**Calstrip Steel Corporation**

REGISTERED ISO 9001:2008

7140 Bandini Blvd. * Los Angeles, CA 90040-3388

(323)726-1345 * Fax (323)722-8269

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Customer: ALCOA FASTENING SYSTEMS Address: P.O. BOX 1186 PITTSBURGH, PA 15230 | Order Number: S81676 / W105332 Customer PO: 220646296 Shipped Date: 06/11/2013 Packlist ID: 144334 |
| Part ID: 082928-CS Description: CR1050 SPH ANN .035 X .937 X COIL Drawing #: 082928-CS Rev #: 07/10/08 | Material Spec: AMS 5085H, ASTM A827-02, MS 100 REV.7 |

HeatID: NLPQ1208 ✓

CHEMICAL ANALYSIS

CC19124

| C | Mn | P | S | Si | Ni | Cr | Cu | Mo | Resi |
|----------|----------|----------|----------|----------|--------|--------|--------|--------|------|
| 0.5119 ✓ | 0.6308 ✓ | 0.0068 ✓ | 0.0075 ✓ | 0.2032 ✓ | 0.0998 | 0.0629 | 0.1676 | 0.0205 | |
| W | V | Sn | Ti | Al | Ca | Zr | Co | N | B |
| | 0.0016 | 0.0170 | 0.0016 | 0.0417 | 0.0010 | | | 0.0066 | |

MECHANICAL AND PHYSICAL PROPERTIES

| Yield | Tensile | Elong % | Hardness | Bend Test |
|------------|------------|---------|----------|-----------|
| | | | HRB 77 ✓ | OK ✓ |
| Grain Size | Olsen Test | Spher% | Decarb | Reduct % |
| 8 ✓ | | 100 ✓ | 0 | |

| Skid Numbers | # of Coils | Weight |
|--------------|------------|--------|
| W105332-1 | 7 | 1,522 |
| W105332-2 | 7 | 1,494 |
| | 14 | 3,016 |

Comment: SOURCE- NLMK (USA)

6/18/13 K424

All work on this order has been performed in accordance with the Company's Quality Assurance Manual


 MARIO VARGAS

Technical Services

Form #:

Print Date: 6/11/2013

Page: 1

SHIPPER#: 9948072981

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LNE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|------|----------|-----|-------------|-----------|------------|---------------|-------|----------|----------|
| 5 | 15 | EA | AN6-16A | | 60397 | MAC FASTENERS | 0RPT4 | | |


Jason Lewis
Vice President of Quality

03/25/14

MACFASTENERS, INC.

1110 Enterprise Street

Ottawa, KS 66067

Phone: 785-242-8812

Fax: 785-242-4616

Packing List**Bill** B/E AEROSPACE CONSUMABLES MGMT**To:** 10000 NW 15TH TERRACE

MIAMI, FL 33172

Ship B/E AEROSPACE CONSUMABLES MGMT**To:** 9835 NW 14th Street

Miami, FL 33172

United States

Shipment No: 52814**Shipment Date:** 03/02/12**Ship Via:** United Parcel Service**Order Number:** 44063**Order Date:** 12/23/11**Customer Code:** BE AEROSPACE**Phone:** (305) 925-2600**PO Number:** OEVL08**Terms:** Net 30 Days

LOT #60397

| <u>Item</u> | <u>Quantity</u> | | | | <u>Unit</u> | <u>Description</u> | <u>Revision</u> | <u>Job Number</u> |
|-------------|-----------------|----------------|-----------------|-----------------|-------------|----------------------------------|-----------------|-----------------------|
| | <u>Open</u> | <u>Shipped</u> | <u>Back Ord</u> | <u>Canceled</u> | | | | |
| 1 | 5,000 | 6,000 | 0 | | M | AN6-16A Bolt, machine-- Aircraft | 2 | 60397 |

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: OEVL08

PART NUMBER: AN6-16A

REV: 2

LOT NUMBER: 60397

MANUFACTURED QUANTITY: 6,000

MILL HEAT NUMBER: 8077858

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225-7014, ALTERNATE 1 COMPLIANT

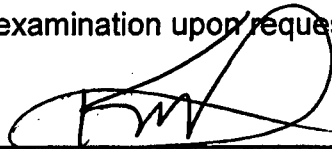
MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number
do not contain Mercury or Mercury compounds, and were
manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured
by MAC FASTENERS, INC. within the United States, and were processed in accordance with all
applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 03/01/12



QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 03/01/12

PO NUMBER: OEVL08

MANUFACTURED QUANTITY: 6,000

LOT NUMBER: 60397

MATERIAL: TYPE 8740

PART NUMBER: AN6-16A

REVISION: 2

REQUIRED HARDNESS: 26 - 32 HRC

SAMPLE SIZE: 5

HARDNESS: 26-28 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.



QUALITY ASSURANCE REPRESENTATIVE



Johnstown Wire Technologies

124 Laurel Ave,
Johnstown, PA 15906

Phone: 814-532-5680
Fax: 814-532-5684

WORK ORDER
044870

TEST REPORT
LOT NUMBER
K-8077858
SALES ORDER / RLS
190888 / 1

SOLD TO

Mac Fasteners, Inc.
1110 Enterprise Street
Ottawa, KS 66067
USA



| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|--------------|-----------------------|-----------------------------|
| CUSTOMER P.O. 50516 | CUSTOMER PART | QUANTITY 18,500 LBS | COILS 8 | LADING NO 00107614 | SHIPMENT DATE 12/02/2011 |
| SPECIFICATION Macfast-87371 AMS2301; AMS6322; AMS-S-6049A; MIL-S-6049A 8740 DFARS Defense Federal Acquisition Regulation Supplement Silicon Killed Fine Grain Aircraft Quality/Cold Heading Quality Drawn From Annealed Rod Spheroidize Annealed In Process Heavy Phos & Light Lube Ctd Size: .371 +.001 -.000 | | | | | |
| CERTIFICATION REQUIREMENTS | | | | | |
| Chemical | | | | | |
| C .41 | Mn .86 | P .006 | S .012 | Si .25 | Al .028 |
| Ni .41 | Cr .50 | Mo .20 | Cu .10 | V .001 | |
| Ca .000 | Ti ???????? | N .0078 | Sn .005 | | |
| Physical | | | | | |
| AMS 2301 0000 | J1 58 | J10 40 | J11 38 | J12 37 | J2 57 |
| | | | | | J3 56 |
| | | | | | J5 54 |
| | | | | | J4 55 |
| | | | | | J6 52 |
| | | | | | J7 49 |
| | | | | | J8 46 |
| | | | | | J9 43 |
| MacroClean E-381 111 | | | | | |
| Mechanical | | | | | |
| TEST | UNITS | HIGH | LOW | AVERAGE | |
| Tensile Str | Lbs/SqIn | 79000 | 78000 | 78000 | |
| RA Per Cent | Percent | 75.2 | 72.1 | 73.5 | |
| Decarb FFD | Inches | .000 | .000 | .000 | |
| Surface def. depth | Inches | .000 | .000 | .000 | |
| Rod / Melt Source | | | | | |
| Rod Source Republic | Melt Source Republic | Country of Origin USA | Nafta Yes | | |
| End of Certification | | | | | |

I certify that the results are a true and correct copy of the records prepared and maintained by JOHNSTOWN WIRE TECHNOLOGIES in compliance with the requirements of the cited specification. Chemistry is as reported by the rod / bar supplier and is not in JWT A2LA accreditation. This test report cannot be reproduced or distributed except in full without the written permission of JOHNSTOWN WIRE TECHNOLOGIES. The test results certified herein relate only to the items tested.

D. L. Deetscreek
D. L. Deetscreek
Director of Quality Assurance



Republic

ENGINEERED PRODUCTS

1807 EAST 28TH ST.
PHONE: 330-438-5694

LURAIN, OH 4405
FAX: 330-438-5694

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

August 1, 2011

PAGE 1

OF 2

PURCHASE ORD: 80879

PART NUMBER: FXT40AA-.562

ORDER NUMBER: 1488317 - 01

HEAT: 8077858

PURCHASE ORDER DATE: 5/16/2011

ACCOUNT NUMBER: 5672-1921-01

SCHEDULE: 7411-90

REVISION: 1

CHARGE ADDRESS

SHIP TO

JOHNSTOWN WIRE TECHNOLOGIES
124 LAUREL AVE
JOHNSTOWN, PA 15906

JOHNSTOWN WIRE TECHNOLOGIES
EDWARD ZAPOLA
C/O C & BL RAILROAD
TRACK 629
JOHNSTOWN, PA 15901

MATERIAL DESCRIPTION

HOT ROLLED STEEL COILS ALLOY AMS 2301K JOHNSTOWN WIRE SPEC RW-100 REVISION DTD 04/21/04 EXC PARA 10.3 AMS 6322N EXC HARD JOHNSTOWN WIRE SPEC RW-005 REVISION DTD 12/31/00 EXC SURFACE DEFECTS JOHNSTOWN WIRE SPEC PART NO. FXT40AA REVISION DTD 12/31/00 MIL S 6049A & AMD 1 COND B-1 EXC MARK & UT WAIVED EF-AISI-8740-H FINE GRAIN VACUUM DEGASSED AIRCRAFT QUALITY FIXED PRACTICE QUALITY RESTRICTED CHEMISTRY RESTRICTED MAX INCIDENTAL ELEMENTS
SIZE: RDS .5620 DIAM X COIL
RDS 14.2748MM DIAM X COIL

LADLE CHEMISTRY %

| C | MN | P | S | SI | CU | NI | CR |
|-------|------|-------|-------|--------|-------|--------|------|
| 0.41 | 0.86 | 0.006 | 0.012 | 0.25 | 0.10 | 0.41 | 0.50 |
| V | MO | SN | AL | B | CB | N | |
| 0.001 | 0.20 | 0.005 | 0.028 | 0.0000 | 0.000 | 0.0078 | |

CALCULATED TESTS

REDUCTION RATIO 524.3 TO 1

AUSTENITIC GRAIN SIZE 5 OR FINER BASED ON A TOTAL ALUMINUM CONTENT EQUAL TO OR GREATER THAN .020% PER ASTM A29.

SEMI - FINISHED RESULTS

JOMINY HARDNESS TEST

SAE J406/ASTM A255

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32
58 57 56 55 54 52 49 46 43 40 38 37 35 35 34 33 32 31 30 30 30 29 29 28

MACRO ETCH TEST

ASTM E381/MIL STD 430

ETCHANT: HCL TEMPERATURE: 170

| | S | R | C |
|-----|---|---|---|
| AVG | 1 | 1 | 1 |

MAGNETIC PARTICLE TEST

AMS 2301 AMS2304 AMS2300

| | IND | AVG | IND | AVG |
|--------|------|------|-----|-----|
| | FREQ | FREQ | SEV | SEV |
| PCE 03 | 0 | 0 | 0 | 0 |

FINISHED SIZE RESULTS

DECARBURIZATION TEST

SAE J419/ASTM E1077/JIS G0558

ETCHANT - NITAL

MAGNIFICATION - 100X

| | SPIKE | COMPLETE | TOTAL |
|-----------|--------|----------|--------|
| | INCHES | INCHES | DEPTH |
| | | | INCHES |
| PCE 10441 | 0.003 | 0 | 0.002 |

G. KRUTH
DIRECTOR QUALITY ASSURANCE

BY HILDA BEGUE

M T Kruth



1807 EAST 28TH ST.
PHONE: 330-438-5694

LORAIN, OH 4405
FAX: 330-438-5694

CERTIFICATE OF TESTS

REPUBLIC ENGINEERED PRODUCTS

August 1, 2011
PAGE 2

OF 2

PURCHASE ORD: 80879
PART NUMBER: FXT40AA-.562
ORDER NUMBER: 1488317 - 01
HEAT: 8077858

PURCHASE ORDER DATE: 5/16/2011
ACCOUNT NUMBER: 5672-1921-01
SCHEDULE: 7411-90
REVISION: 1

CAPABLE OF SEAM DEPTH 1 $\frac{1}{2}$ MAX DIAMETER NOT LESS THAN .005 MAX

NOTES
CHEMICAL ANALYSIS CONFORMS TO APPLICABLE SPECS: ASTM E415, LBL10129, LBL10130, ASTM E1019, LBL10158, LBL10114, AND ASTM E1085, LBL10184, LBL10188.

REPUBLIC ENGINEERED PRODUCTS HEREBY CERTIFY THAT THE MATERIAL LISTED HEREIN HAS BEEN INSPECTED AND

NOTES (CONTINUED)
TESTED IN ACCORDANCE WITH THE METHODS PRESCRIBED IN THE GOVERNING SPECIFICATIONS AND BASED UPON THE RESULTS OF SUCH INSPECTION AND TESTING HAS BEEN APPROVED FOR CONFORMANCE TO THE SPECIFICATIONS.

CERTIFICATE OF TESTS SHALL NOT BE REPRODUCED EXCEPT IN FULL.

ALL TESTING HAS BEEN PERFORMED USING THE CURRENT REVISION OF THE TESTING SPECIFICATIONS.

RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FED STATUTES TITLE 18 CHAPTER 47.

THE MATERIAL WAS NOT EXPOSED TO MERCURY OR ANY METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURE DURING PROCESSING OR WHILE IN OUR POSSESSION.

NO WELD OR WELD REPAIR WAS PERFORMED ON THIS MATERIAL.

THE RESULTS REPORTED RELATE ONLY TO THE ITEMS TESTED

SOURCE INFORMATION
MELT SOURCE: CANTON CAST ROLL MELT COUNTRY: U.S.A HOT ROLL SOURCE: LORAIN 9/10, U.S.A
MELT METHOD: EP BLOOM RED. RATIO: 524.3

END OF DATA CC END OF DATA
WITH SHIPMENT 1 COPY PRINTED AT SHIPPING AREA
FAX SHIP TO 1 COPY ATTENTION EDWARD ZAPOLA 1-814-532-5684
FILE 1 COPY

G. KRUTH
DIRECTOR QUALITY ASSURANCE

BY HILDA BEGUE

DE TRAY Plating Works

Specialized Electro-Plating and Polishing
Nickel
Copper
Decorative Chrome
Satin Chrome
Zinc
Cadmium
Passivate
Bright Dip
Strip Copper
Descale

10406 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-6411 Fax (816) 252-8527 • E-mail : DeTrayPlating@aol.com

February 28, 2012

Mac Fasteners
1110 Enterprise Street
Ottawa, Kansas 66067

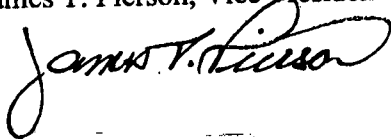
Subject: Certification

This is to certify that the following parts have been electrodeposited cadmium plate per Spec.-QQ-P-416/AMS-QQ-P-416/NAS4160/AMS2400, Type II, Class 2. Please reference our Invoice# 160072 dated 02/28/2012 for:

Lot#-60397

P.N.-AN6-16A

James T. Pierson, Vice-President



DE TRAY PLATING WORKS



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|-------------|-----------|------------|--------------|-------|----------|----------|
| 12 | 250 | EA | MS21044-N08 | | 39995-000 | MACLEAN-BSNA | 019L2 | | |


Jason Lewis
Vice President of Quality

03/25/14

MACLEAN-ESNA
PICK IN ORDER PACKING LIST

5/331

Ship From: MacLean ESNA
611 Country Club Road
Pocahontas, AR 72455

Col/Fpd: 01 COLLECT
Routing: 01 Not on file

Sold to: 552550
BE AEROSPACE INC
PO BOX 025263
MIAMI, FL 33102-5263

Ship To: 552550-0000
M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

Customer P.O.: OHJ057

Order No: 055028-00 B40: 05
Tkn By: SEH Chgd By: SEH

| Ord. Qty. | Item Number | LOCN | | | | | | | |
|-----------|-------------|--------------------|----------|--------|---------|--------|--------|-----|--|
| No. Ctns | Description | TAG | | | | Qty. | No. of | Net | |
| Ship Qty. | | HT/LOT | ROH | Picked | Cartons | Weight | | | |
| 500000 | 175746 | 0010 | 04/01/10 | ✓A50A | 15096 | 15096 | 2 | 59* | |
| 500,000 | F22NM-82 | 0 | | | | | | | |
| | MS21044N08 | 1770-000 | | | | | | | |
| CTN QTY: | 10000 | Cus Pt: MS21044N08 | | | | | | | |
| | | ✓C31A | 9925 | 9925 | 1 | 39* | | | |
| | | 11765 | | | | | | | |
| | | 1770-000 | | | | | | | |
| | | ✓M36B | 9950 | 9950 | 1 | 39* | | | |
| | | 11548 | | | | | | | |
| | | 38489-000 | | | | | | | |
| | | ✓B35A | 225000 | 225000 | 23 | 900* | | | |
| | | 11204 | | | | | | | |
| | | 39810-000 | | | | | | | |
| | | ✓B36A | 202537 | 202537 | 24 | 811* | | | |
| | | 11205 | | | | | | | |
| | | 39810-000 | | | | | | | |
| | | ✓C30B | 37492 | 37492 | 4 | 152* | | | |
| | | 11210 | | | | | | | |
| | | 39995-000 | | | | | | | |

* CERTS REQUIRED *

REL NBR V-099325

Order Total:

2 SKIDS 2065*
52 Bxs

***** ORDER COMMENTS *****

QTY-TOLERANCE +/-2%
UNDER 150# FEDEX GROUND 0331-0149-0 MARK COLLECT
OVER 150# FEDEX NATIONAL LTL 018757
DO NOT INSURE
F.O.B. POCAHONTAS, AR
ALL ITEMS MUST BE NEW AND TO LATEST
REVISION

*** Continued On The Next Page ***

3/22/10
B

PAID 3/22/10

105096
1010000
109925

109950

105000
22010000

102537
20010000

107492
3010000

MACLEAN-ESNA
PICKING & PACKING LIST

Ship To: MacLean ESNA
811 Country Club Road
Pocahontas, AR 72455

Col/Fpd: 01 COLLECT
Routing: 01 Not on file

Sold to: 552550
3610000 BE AEROSPACE INC
10 JDD5 PO BOX 025263
MIAMI, FL 33102-5263

Ship To: 552550-0000
M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

50610000

Customer P.O. #: OHJ057

Order No: 055028-00 B/O: 05
Tkn By: SEH Chgd By: SEH

| Ord. Qty. Item Number | LOCN | Qty. | No. of | Net |
|-----------------------|--------|--------|--------|--------|
| Description | TAG | Picked | Cart | Weight |
| Line From Date | HT/LOT | QOH | | |

10 JDD20

10 JDD52

10 JDD000

10 JDDJP

200' 000

25 BX2
JAN 12 JAP2

| | | | | |
|---|--|--|-----|--|
| 1 | | | 125 | |
| 1 | | | 51 | |
| 1 | | | 600 | |
| 1 | | | 30 | |
| 1 | | | 30 | |
| 1 | | | 60 | |

2/331

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
611 COUNTRY CLUB ROAD
POCAHONTAS, ARKANSAS 72455
(870) 892-5201

TO: M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

DATE: 3/23/2010

| | | | | |
|----------|---------------------|--------------------------------|-------------|---|
| SUBJECT: | YOUR ORDER NUMBER | OHJ057 | ITEM NUMBER | 1 |
| | ESNA ORDER NUMBER | 055028 | | |
| | FSCM/ CAGE NUMBER | 019L2 | | |
| | YOUR PART NUMBER | MS21044N08 | | |
| | CERTIFIED AS | MS21044N08 PER NASM21044 (NEW) | | |
| | ESNA PART NUMBER | F22NM-82 | | |
| | QUANTITY | 37492 | | |
| | PACKING LIST NUMBER | 51331 | | |
| | SHOP ORDER NUMBER | 39995 - 000 | | |

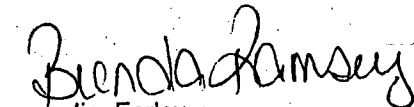
Gentlemen:

This is to certify that all applicable plating, heat treating, and inspection processing and that all material used in the manufacture of subject parts conform to the specification or drawings received by ESNA and set forth in the subject purchase order; that the parts are of good material and workmanship; and that all necessary records, including chemical and physical where applicable, will be made available for review upon request. The inspection and test reports provided represent the actual attributes of the items furnished on this contract and indicate full compliance with all applicable specification and contract requirements.

This is to certify that the materials supplied against the subject order are free of contamination by presence of mercury.

Very truly yours,

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY


Jim Earley
Quality Assurance Manager

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

CERTIFICATE OF QUALITY COMPLIANCE

DATE: 3/23/2010

TO: M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

ESNA PART NO. F22NM-82
MANUFACTURER'S LOT SIZE 77064 (APPROX. WT. COUNT)
MANUFACTURED UNDER SHOP ORDER NUMBER 39995 - 000
ORIGINATED AS SHOP ORDER NUMBER -

ACCEPTANCE TESTS PER NASM 25027

MATERIAL RAW MATERIAL TYPE 0.310 RD 1010 CHQ WIRE DATE MFG: 08-08
RAW MATERIAL CONFORMS TO ASTM A-510 AS EVIDENCED BY THE ATTACHED MILL CERTIFICATION. ESNA SHOP
ORDER NO. 39995 - 000 MILL HEAT NO. 527730 VENDOR WIRE TECH
RED NYLON IS A TRADEMARK OF ELASTIC STOP NUT. THIS ASSURES TRACEABILITY OF PARTS TO SOURCE. MATERIAL
CERTIFICATION WITH HEAT NUMBERS ASSURES TRACEABILITY TO VENDOR OF RAW MATERIAL. NONMETALLIC INSERT
CONFORMS TO ASTM D4066-00. (ZYTEL 103)

FINISH FINISH TYPE CADMIUM PLATED TO SAE AMS QQ-P-416B, TY II, CL 2
LUBRICANT TYPE NO ADDITIONAL LUBRICANT

AXIAL STRENGTH REQUIRED LBS. MINIMUM 1720 ALL SAMPLE PIECES TESTED MEET OR EXCEED
EXCEEDS LBS. 2100 MINIMUM REQUIREMENTS.
SAMPLE SIZE 15 PIECES.

WORKMANSHIP CONFORMS DIMENSIONALLY TO MS21044N08 PER NASM21044 (NEW)
STANDARD. BEARING SURFACE SQUARENESS AS SPECIFIED PER NASM 25027

DISCONTINUITIES

WITHIN LIMITS PER NASM 25027 AND MIL-STD-271D/ACN 1/ AND REV E/ NOTICE 2/ AND REV F/ NOTICE 1.

| | | |
|-------------------------------|-------------------------|-----|
| ASTM E1444 -- MT PER SPEC 725 | SAMPLE SIZE(MT - PCS): | 0 |
| | ACCEPTED(PCS): | N/A |
| ASTM E1417 -- PT PER SPEC 731 | SAMPLE SIZE(PT - PCS): | 0 |
| | ACCEPTED(PCS): | N/A |

LOCKING TORQUE

MAXIMUM LOCKING(IN. LBS.): 15
MINIMUM BREAKAWAY(IN. LBS.): 1.5
1ST CYCLE MAXIMUM LOCKING(IN. LBS.): 3.5
7TH CYCLE MAXIMUM LOCKING(IN. LBS.): 3.9
15TH CYCLE MAXIMUM LOCKING(IN. LBS.): 3.5
15TH MINIMUM BREAKAWAY(IN. LBS.): 2.1

ALL SAMPLE PIECES MEET
OR EXCEED MINIMUM REQTS.

SAMPLE SIZE 15 PIECES

MERCURY FREE CLAUSE

WE CERTIFY THAT NO POSSIBILITY EXISTS FOR MERCURY CONTAMINATION TO OCCUR
DURING MANUFACTURE, ASSEMBLY, OR TESTING OF PARTS ON THIS CONTRACT.

I CERTIFY THAT THE ABOVE TEST RESULTS AND/OR STATEMENTS ARE CORRECT AND REPRESENT THE PRODUCTS AS SUPPLIED.

SIGNATURE

JIM EARLEY, QUALITY ASSURANCE MANAGER

MACLEAN-ESNA
A MACLEAN-FOGG COMPANY
POCAHONTAS, ARKANSAS 72455

LOCKING TORQUE TEST

CUSTOMER NAME M&M AEROSPACE HARDWARE
10000 N.W. 15 TERRACE
MIAMI, FL 33172

CUSTOMER DUE DATE

3/23/2010

CUSTOMER PO # OHJ057
ITEM NUMBER 175746
QUANTITY 37492
THREAD SIZE .1640-32UNJC-3B
HEX .336 - .345
LINE NO 1
MS NUMBER - REF: MS21044N08 PER NASM21044 (NEW)

ESNA ORDER # 055028
PART # F22NM-82
SHOP ORDER # 39995 - 000
LOT QUANTITY 77064
PARENT SHOP ORDER # -

Sample Size & Requirements per Spec NASM 25027

SampleSz 15

REQUIREMENT: 1ST, 7TH, 15TH, INSTALLATION MAXIMUM TORQUE

15

15TH BREAKAWAY MINIMUM TORQUE

1.5

| SAMPLE # | 1ST ON | 1ST BREAK | 7TH ON | 7TH BREAK | 15TH ON | 15TH BREAK |
|----------|--------|-----------|--------|-----------|---------|------------|
| 1 | 3.5 | 4.0 | 3.9 | 3.5 | 3.5 | 3.5 |
| 2 | 3.0 | 3.4 | 2.5 | 3.0 | 3.3 | 3.1 |
| 3 | 3.0 | 3.1 | 2.4 | 2.5 | 2.0 | 2.5 |
| 4 | 3.0 | 3.0 | 3.0 | 2.7 | 2.5 | 2.9 |
| 5 | 2.9 | 3.0 | 2.4 | 2.5 | 2.4 | 2.4 |
| 6 | 3.1 | 3.3 | 2.4 | 3.0 | 2.8 | 2.6 |
| 7 | 3.0 | 3.0 | 2.3 | 2.6 | 2.0 | 2.1 |
| 8 | 3.1 | 3.1 | 2.9 | 3.0 | 2.6 | 2.7 |
| 9 | 2.3 | 2.5 | 2.6 | 3.0 | 2.9 | 3.0 |
| 10 | 2.4 | 2.3 | 2.7 | 2.5 | 2.0 | 2.1 |
| 11 | 2.5 | 2.5 | 2.8 | 3.0 | 2.2 | 2.5 |
| 12 | 3.0 | 3.4 | 2.1 | 2.3 | 2.6 | 3.5 |
| 13 | 2.9 | 3.0 | 3.1 | 3.0 | 2.4 | 2.4 |
| 14 | 3.0 | 2.8 | 3.0 | 3.2 | 3.0 | 3.0 |
| 15 | 3.1 | 3.0 | 2.5 | 3.0 | 2.6 | 2.7 |

SIGNATURE

Brenda Ramsey
JIM EARLEY, QUALITY ASSURANCE MANAGER

WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Maclean - ESNA
611 Country Club Road
Pocahontas, AR 72455
USA



BMIR 210383
JO 16451
310 RD 1010

WORK ORDER
059945

CERTIFICATION

HEAT NO.
527730
SALES ORDER / RLS
824891 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

| CUSTOMER P.O. | CUSTOMER PART | QUANTITY | CARRIERS | LADING NO | SHIPMENT DATE | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|----------|-----------|---------------|------|------|------|
| 16451 | 0400070310 | 1,106 Lbs | 1 | 00073558 | 08/22/2008 | | | |
| SPECIFICATION M051010-303100B C-1010, AKFG, CHQ WIRE, SAIP Zinc Phosphate and Lube Coating, Size:0.309/0.311 Specifications: 1040 B , ASTM A-29/A29M 05 , ASTM A-510 REV. 06 | | | | | | | | |
| CERTIFICATION REQUIREMENTS | | | | | | | | |
| Chemical Properties | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mo |
| 0.09 | 0.37 | 0.008 | 0.012 | 0.080 | 0.08 | 0.04 | 0.07 | 0.02 |
| Physical Properties | | | | | | | | |
| Mill Source Charter | | | | | | | | |
| Mechanical Properties | | | | | | | | |
| TEST | UNITS | Results | | | | | | |
| Tensile Strength | KSI | 61.2 | | | | | | |
| 39995-000 | | | | | | | | |
| <small>Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. *The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47.* REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL. Wire Tech, Inc. metallurgical laboratory is accredited in the following test: chemical analysis per ASTM E 415, mechanical testing per ASTM A 370, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1077, IFI 140, inclusion rating per ASTM E 45, decarburization performed as per IFI 140. The reported Chemical and Physical Properties are Melt Source results. Transcribed from mill certificates. HRB(W) are hardness results performed with a 1/16" carbide ball. Unless otherwise specified, HRB and HRC results are conversions from ASTM A370 tables 1 and 2. *Test result not covered by our current A2LA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by A2LA or covered by Wire Tech, Inc. A2LA accreditation. TEST RESULTS RELATE ONLY TO THE ITEMS TESTED. "LATEST REVISIONS OF ASTM"</small> | | | | | | | | |
| Material is free of mercury, radium, or alpha contamination. | | | | | | | | |

FEB-25-2008 MON 04:40 PM

CHARTER ROLLING Q/C DEPT

+1 262 268 2554

P. 12

FAX



CHARTER STEEL

A Division of
Charter Manufacturing Company, Inc.

CHARTER STEEL TEST REPORT Reverse Has Text And Codes

1658 Cold Springs Road
Saukville, Wisconsin 53080

(262) 268-2400

1-800-437-8789

FAX (262) 268-2570

Wiretech Incorporated
6440 East Canning Street
Los Angeles, CA 90040
Attn: Janice Duran

| | |
|---------------------|------------------|
| Charter Steel | 6175-3 |
| Charter Steel | 1010-3C110-C |
| Charter Sales Order | 259289 |
| Heat # | 527730 |
| Ship Lot # | 388319 |
| Grade | 1010 A AK FG RHO |
| Process | HR |
| Roll Size | 7/16 |

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements.

Test Results of Heat Lot# 527730

| | | | | | | | | | | | |
|----------------|-------|--------|--------|-------|-------|------|------|------|------|-------|-------|
| Lab Code: 7388 | C | MN | P | S | SI | NI | CR | MO | CU | SN | V |
| Chemistry | 0.09 | 0.37 | 0.008 | 0.012 | 0.080 | 0.04 | 0.07 | 0.02 | 0.08 | 0.005 | 0.001 |
| Wt% | | | | | | | | | | | |
| | AL | N | B | TI | NB | | | | | | |
| | 0.034 | 0.0060 | 0.0001 | 0.001 | 0.001 | | | | | | |

CHEM. DEVIATION EXT.-GREEN = N/R

| | # of Tests | Test Results of Rolling Lot # 388319 | | | Mean Value | |
|---------------------------|------------|--------------------------------------|-----------|--|------------|-----------------------|
| | | Min Value | Max Value | | | |
| TENSILE (KSI) | 3 | 56.8 | 57.8 | | 57.4 | TENSILE LAB = 0358-02 |
| REDUCTION OF AREA (%) | 3 | 58 | 59 | | 64 | RA LAB = 0358-02 |
| ROCKWELL B (HRBW) | 3 | 63 | 66 | | 64 | RB LAB = 0358-02 |
| ROCKWELL C (HRC) | 0 | 0 | 0 | | 0 | RC LAB = N/R |
| ROD SIZE (Inches) | 20 | 0.433 | 0.444 | | 0.439 | |
| ROD OUT OF ROUND (Inches) | 6 | 0.003 | 0.007 | | 0.006 | |

QC DEVIATION EXT.-GREEN = N/R

Test Results of Processing Lot

QC DEVIATION EXT.-PROCESSED = N/R

Specifications: Manufactured per Charter Steel Quality Manual Rev B, 12-05-07
Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = COP 3000 Revision = Q Dated = 16-JAN-2007

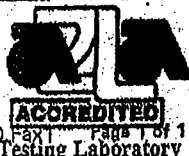
Additional Comments:

39995-000

Amia 26383
Dg 16451
310 AD 1010



Charter Steel
Saukville, WI, USA



Tim Leahy
Tim Leahy
Manager of Quality Assurance
02/22/2008

Fax number: (323) 728-6360

Rem: Load 1, Mail 0, Fax 1, Page 1 of 1

The following statements are applicable to the material described on the front of this Test Report:

1. Except as noted, the steel supplied for this order was melted, rolled, and processed in the United States.
2. Mercury was not used during the manufacture of this product, nor was the steel contaminated with mercury during processing.
3. Unless directed by the customer, there are no welds in any of the coils produced for this order.
4. The laboratory that generated the analytical or test results can be identified by the following key:

| Certificate Number | Lab Code | Laboratory | | Address |
|--------------------|----------|------------|------------------------------------------------------------------------|---------------------------------------------------|
| 0358-01 | 7388 | CSMD | Charter Steel Melting Division | 1653 Cold Springs Road, Saukville, WI 53080 |
| 0358-02 | 8171 | CSRD/CDPD | Charter Steel Rolling/Processing Division | 1658 Cold Springs Road, Saukville, WI 53080 |
| 0358-03 | 123633 | P4 | Charter Steel Ohio Processing Division | 6255 US Highway 23, Risingsun, OH 43457 |
| 0358-04 | 125544 | CSC | Charter Steel Cleveland | 4300 E. 49th St., Cuyahoga Heights, OH 44125-1004 |
| 358.05 | 128003 | CSDT | Charter Steel Detroit | 23860 Sherwood Ave. Center Line, MI 48015 |
| . | . | -- | Subcontracted test performed by laboratory not in Charter Steel system | |

5. When run by a Charter Steel laboratory, the following tests were performed according to the latest revisions of the specifications listed below, as noted in the Charter Steel Laboratory Quality Manual:

| Test | Possible Laboratory | Specification |
|----------------------------------------------|--------------------------------|--------------------------------|
| Chemistry Analysis | CSMD, CSC | ASTM E415; ASTM E1019 |
| X-ray Fluorescence Stainless and Alloy Steel | CSC | ASTM E572 |
| Macroetch | CSMD, CSC | ASTM E381 |
| Hardenability (Jominy) | CSMD, CSC | ASTM A255; SAE J406; JIS G0561 |
| Grain Size | CSMD | ASTM E112 |
| Tensile Test | CSRD/CSPD, P4, CSC, CSDT | ASTM E8; ASTM A370 |
| Rockwell Hardness | CSMD, CSRD/CSPD, P4, CSC, CSDT | ASTM E18; ASTM A370 |
| Microstructure (spheroidization) | CSRD/CSPD, P4 | ASTM A892 |
| Inclusion Content (Methods A, E) | CSRD/CSPD, CSC | ASTM E45 |

Charter Steel has been accredited to perform all of the above tests by the American Association for Laboratory Accreditation (A2LA). These accreditations expire 01/31/09.

All other test results associated with a Charter Steel laboratory that appear on the front of this report, if any, were performed according to documented procedures developed by Charter Steel and are not accredited by A2LA.

6. The test results on the front of this report are the true values measured on the samples taken from the production lot. They do not apply to any other sample.
7. This test report cannot be reproduced or distributed except in full without the written permission of Charter Steel. The primary customer whose name and address appear on the front of this form may reproduce this test report subject to the following restrictions:
 - It may be distributed only to their customers
 - Both sides of all pages must be reproduced in full
8. This certification is given subject to the terms and conditions of sale provided in Charter Steel's acknowledgement (designated by our Purchase Order number) to the customer's purchase order. Both Purchase Order numbers appear on the front page of this Report.
9. Where the customer has provided a specification, the results on the front of this test report conform to that specification unless otherwise noted on this test report.

39995-000



CSMA
9
177



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|--------------|-----------|------------|----------------------|-------|----------|----------|
| 10 | 300 | EA | MS20601AD4W8 | | 86737839 | CHERRY AEROSPACE SAN | 11815 | | |


Jason Lewis
Vice President of Quality

03/25/14



CHERRY®
AEROSPACE
 SPS Fastener Division, a PCC Company

Cherry Aerospace
 1224 East Warner Avenue
 Post Office Box 2157
 Santa Ana, CA 92707-0157
 USA



PACKING LIST

Order No: S0301082
 Order Date: 12/18/06
 Print Date: 07/11/07

Page: 1



Sold-To: 10015341

Ship-To: 19000244

| | |
|----------------------------|------------------------------------------------------------------------|
| S O L D T O | M&M AEROSPACE HARDWARE PO BOX 025263 MIAMI, FL 33102-5263 USA |
|----------------------------|------------------------------------------------------------------------|

| | |
|----------------------------|-----------------------------------------------------------------------------|
| S H I P T O | M&M AEROSPACE HARDWARE 10000 N.W. 15TH TERRACE MIAMI, FL 33172 USA |
|----------------------------|-----------------------------------------------------------------------------|

Salesperson (s):110

Purchase Order: 0AS898

Credit Terms: 1%10, 30
 1%10, Net 30

Ship Via: Watkins
 FOB: Origin

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
 IF OVER 150# SHIP WATKINS MOTOR LINE ACCOUNT# 018757 - DO NOT INSURE
 DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
 DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

 BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
 AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

| Ln | Item Number | Site T Location | Lot/Serial | Qty Open Qty to Ship | UM | Promised Shipped |
|----|-----------------------------|--------------------|------------|-------------------------|----|---------------------|
| 1 | CR9162-4-08 | 1600 | | | EA | 06/07/07 |
| | Customer Item: MS20601AD4W8 | | | | | |
| | | K0604 | 86737839 | 13000.0 | | () |

**TEST REPORTS
 ENCLOSED DO
 NOT DESTROY**

Packing List



CHERRY®
AEROSPACE
SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: S0301082
Order Date: 12/18/06
Print Date: 07/11/07

Page: 1



Sold-To: 10015341

Ship-To: 19000244

| | |
|----------------------------|------------------------|
| S O L D T O | M&M AEROSPACE HARDWARE |
| | PO BOX 025263 |
| | MIAMI, FL 33102-5263 |
| | USA |
| | |

| | |
|----------------------------|-------------------------|
| S H I P T O | M&M AEROSPACE HARDWARE |
| | 10000 N.W. 15TH TERRACE |
| | MIAMI, FL 33172 |
| | USA |
| | |

Salesperson (s):110

Purchase Order: 0AS898

Credit Terms: 1%10, 30
1%10, Net 30

Ship Via: Watkins
FOB: Origin

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
IF OVER 150# SHIP WATKINS MOTOR LINE ACCOUNT# 018757 - DO NOT INSURE
DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

| Ln | Item Number | Site T Location | Lot/Serial | Qty Open Qty to Ship | UM | Promised Shipped |
|----|-----------------------------|--------------------|------------|-------------------------|----|---------------------|
| 1 | CR9162-4-08 | 1600 | | | EA | 06/07/07 |
| | Customer Item: MS20601AD4W8 | | | | | |
| | | K0604 | 86737839 | 13000.0 | | () |

**TEST REPORTS
ENCLOSED DO
NOT DESTROY**

CERTIFICATION

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications. Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

ATTENTION: PURCHASING DEPARTMENT

Quality Assurance Representative

Signed

SIM NGUYEN

CHERRY®AEROSPACE LLC1224 East Warner Avenue
Santa Ana, CA 92707-0157**Final Inspection & Test Report**
Cherry® Rivet**An ISO9001 and AS9100 registered company**

| | | | |
|---------------------|------------|--------------------|------------|
| Part Numbers | Rev | Proc. Spec. | Rev |
| CR9162-4-08 | L | MIL-R-7885 | D2 |

| | |
|----------------------|----------------------|
| Lot I.D. No.: | 86737839 |
| Lot Size: | 13,000 |
| MFG. Date: | July 10, 2007 |

ASSEMBLY DATA

| TYPE | ID # | CERT # | MATERIAL | FINISH | LUBE |
|-------|----------|--------|---------------------|------------|--------|
| Rivet | 86737839 | A53986 | 2117-T4 ALUM. ALLOY | MIL-C-5541 | Par-90 |
| Stem | 86737851 | A54690 | 2017-T4 ALUM. ALLOY | MIL-C-5541 | Par-90 |

W.O. #: 12180063

Final Lube: HOT WAX

MECHANICAL STRENGTH TES

| MIN REQ'D SAMPLE SIZE SPECS | INSTALLED SHEAR | | SPINDLE RETENSION | |
|-----------------------------------|-----------------|-----|-------------------|----|
| | 370 | | 15 | |
| | 9 | | 9 | |
| | | | UnLocked | |
| RESULTS | 535 | 531 | 78 | 72 |
| | 538 | | 74 | |
| | 581 | | 77 | |
| | 583 | | 63 | |
| | 581 | | 74 | |
| | 539 | | 76 | |
| | 540 | | 64 | |
| | 538 | | 74 | |
| LOAD VALUES IN POUNDS | | | | |

METALLURGICAL AND OTHER RELATED TESTS/REQUIREMENT

| <u>PCS.</u> | <u>ITEM</u> | <u>STATUS</u> | <u>PCS.</u> | <u>ITEM</u> | <u>STATUS</u> |
|-------------|------------------------------------------|---------------|-------------|-----------------------------------------|---------------|
| <u>125</u> | <u>EXAMINATION</u> | <u>PASS</u> | <u>13</u> | <u>INSTALLATION (Min and Max Grips)</u> | <u>PASS</u> |
| | Locking feature (missing collar/spindle) | | | Spindle Protrusion/Recession | |
| | Visual (grip/material code, ID) | | | Collar Protrusion | |
| | Laps, seams, folds | | | Blind Head Dia./Formation | |
| <u>32</u> | <u>Roundness/Concentricity</u> | <u>PASS</u> | | <u>Tightness in plate</u> | |
| | Dimensional, ID Marks, Tool Marks/Nicks | | | | |

Comments:

Blind Fastener

Tr. Rev.: -
Rev. Date: 7/10/2007Inspector
M Garcia

Insp. Control #: 260900

Cherry Aerospace LLC certifies that the product tested above conforms to all referenced specifications listed and that the original data are available for review upon sufficient notice. Cherry Aerospace LLC further certifies that the articles listed above have been manufactured and inspected in accordance with FAA TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Substitution of parts may only be done if acceptable to or approved by the FAA Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory.

The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.

CHERRY® AEROSPACE LLC

1224 East Warner Avenue
Santa Ana, CA 92707-0157



An ISO9001 and AS9100 registered company

**Final Inspection & Test Report
Cherry® Rivet**

Lot I.D. No.: 86737839

Rev: -

Customer Parts List

| <u>Customer Part Number</u> | <u>Rev</u> | <u>Proc. Spec.</u> | <u>Rev</u> |
|-----------------------------|------------|--------------------|------------|
| MS20601AD4W8 | - | MIL-R-7885 | D2 |

CERTIFIED INSPECTION REPORT AND TEST RESULTS

NICHOLS WIRE, INCORPORATED

1547 Helton Drive - Florence, AL 35630

SHIP TO:

**CHERRY AEROSPACE LLC
1224 EAST WARNER AVENUE
P. O. BOX 2157
SANTA ANA, CA. 92707-0157**

SOLD TO:

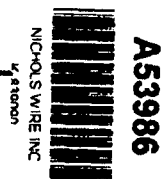
**CHERRY AEROSPACE LLC
ATTN ACCTS PAYABLE
P. O. BOX 2157
SANTA ANA, CA. 92707-0157**

| | | | | | | | | |
|------------------------------------------------------|--|----------------------|-----------------------------------|-----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| CUSTOMER PURCHASE ORDER NO. PO78766 | | | NW WORK ORDER NO. 04497 | | | AUTHORIZED SIGNATURE QUALITY CONTROL MANAGER We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown on this sheet. | | |
| DESCRIPTION .123 2117H13 TYPE C 22" 100#CL | | | | | | | | |
| FINISH | | | | | | | | |
| CUSTOMER PART NO. | | ALLOY 2117 | | TEMPER H13 | | | | |
| NW PART NO. G123M5 | | | | DATE SHIPPED 02/16/2007 | | | | |
| WEIGHT SHIPPED 210 lb | | | | | | | | |

| | | | ULTIMATE | | YIELD | | SHEAR | | % ELONGATION |
|------------|------------|--|-----------------|------|-----------------|-----|-----------------|-----|--------------|
| LOT NUMBER | # OF TESTS | | STRENGTH K.S.I. | | STRENGTH K.S.I. | | STRENGTH K.S.I. | | |
| | | | MIN | MAX | MIN | MAX | MIN | MAX | |
| K-839090 | 1 | | 31.4 | 31.4 | 0.0 | 0.0 | | | 0.00 |

COMMENTS:

QQA-430
M262 .123 REV D
MILL SOURCE KAISER
MADE IN USA



MAR 03 2007

| CHEMICAL COMPOSITION | ALLOY | SILICON | | IRON | | COPPER | | MANGANESE | | MAGNESIUM | | CHROMIUM | | OTHERS | |
|----------------------|--------|---------|--------|--------|--------|----------|--------|-----------|--------|-----------|--------|----------|--------|--------|--------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| | 2117 | 0.0000 | 0.8000 | 0.0000 | 0.7000 | 2.2000 | 3.0000 | 0.0000 | 0.2000 | 0.2000 | 0.5000 | 0.0000 | 0.1000 | 0.0500 | 0.1500 |
| | | | | | | | | | | | | | | | |
| | | NICKEL | | ZINC | | TITANIUM | | | | | | | | | |
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | | |
| 0.0000 | 0.0000 | 0.0000 | 0.2500 | 0.0000 | 0.0000 | | | | | | | | | | |
| ALUMINUM REMAINDER | | | | | | | | | | | | | | | |

**KAISER ALUMINUM
& CHEMICAL CORPORATION**

CERTIFIED TEST REPORT
600 KAISER DRIVE HEATH, OH 43056

SHIP TO

NICHOLS WIRE INC.
1547 HELTON AVE

FLORENCE

AL 35630

SOLD TO

NICHOLS WIRE INC.
1547 HELTON AVENUE
ATTENTION: AMANDA SOUTH

FLORENCE

AL 35630

NICHOLS 9691 01 8000 D I NSP404

MADE IN USA

| | | | | | |
|---------------------------------------------|-------|----------------------|-----------------|-------------------------------|-------------------|
| CUSTOMER PURCHASE ORDER NO. & ITEM 11680 | | | | KAISER ORDER NO. 214464612 | |
| ALLOY 2117 | CLAD. | TEMPER O | GAUGE .37500 | WIDTH 00.0000 | LENGTH 000.000 |
| ITEM ORDERED ALY-JUMBO | | | | | |
| CUSTOMER SPECIFICATION | | | | | |
| PART NUMBER 6G37L1 | | BL NUMBER 9691 | | DATE SHIPPED 10/16/06 | |
| WEIGHT SHIPPED 40,698 | | NO. OF PIECES 182 | | GOVT. CONTRACT NO. | |

CERTIFICATION

KAISER ALUMINUM & CHEMICAL CORPORATION (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER HAS BEEN INSPECTED AND TESTED AND FOUND IN CONFORMANCE WITH THE APPLICABLE SPECIFICATIONS FORMING A PART OF THE DESCRIPTION SET FORTH IN KAISER'S SALES ORDER ACKNOWLEDGEMENT FORM. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS & CONDITIONS OF SALE.

John Despi
Technical Manager

| LOT NUMBER | NO. OF TESTS | WGU | | | | | | | |
|------------|--------------|------------|--------------|-----------|-----------|-----------|-----------|-----------|--|
| 839089 | 3 | MIN MAX | 22.5 22.5 | | | | | | |
| 55-8F2 | | Cu 2.9 | Fe .41 | Si .46 | Mn .16 | Mg .37 | Zn .19 | Cr .07 | |
| 839090 | 2 | MIN MAX | 22.0 22.5 | | | | | | |
| 53-1F2 | | Cu 2.7 | Fe .39 | Si .32 | Mn .17 | Mg .36 | Zn .12 | Cr .06 | |

NICHOLS WIRE INC.
K-133000



A53986

gm
MAR 03 2007

| CHEMICAL COMPOSITION (WT.%) | | | | | | | | | |
|-----------------------------|-----|-----|-----|------|------|------|------|-------------|--------------|
| | Cu | Fe | Si | Mn | Mg | Zn | Cr | Others Each | Others Total |
| MIN | 2.2 | | | | 0.20 | | | | |
| MAX | 3.0 | 0.7 | 0.8 | 0.20 | 0.50 | 0.25 | 0.10 | 0.05 | 0.15 |
| ALUMINUM REMAINDER | | | | | | | | | |

NICHOLS WIRE, INCORPORATED

1547 Helton Drive - Florence, AL 35630

SHIP TO:

CHERRY AEROSPACE LLC
1224 EAST WARNER AVENUE
P. O. BOX 2157
SANTA ANA, CA. 92707-0157

SOLD TO:

**CHERRY AEROSPACE LLC
ATTN ACCTS PAYABLE
P. O. BOX 2157
SANTA ANA, CA. 92707-0157**

| | | | | | | | | | | | |
|-----------------------------------------------|--|------------|--|-----------------------------------|-------------|-----------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|--|
| CUSTOMER PURCHASE ORDER NO. PO81817 | | | | NW WORK ORDER NO. 06163 | | | | <i>Shannon King</i> | | | |
| DESCRIPTION .0980 2017 T37 22" CL | | | | | | | | AUTHORIZED SIGNATURE QUALITY CONTROL MANAGER We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet, the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown on this sheet. | | | |
| FINISH | | | | | | | | | | | |
| CUSTOMER PART NO. | | | | ALLOY 2017 | | TEMPER T37 | | | | | |
| NW PART NO. D098Z2 | | | | | | DATE SHIPPED 05/03/2007 | | | | | |
| WEIGHT SHIPPED 209 lb | | | | | | | | | | | |
| | | | | ULTIMATE | | YIELD | | SHEAR | | % ELONGATION | |
| LOT NUMBER | | # OF TESTS | | STRENGTH K.S.I. | | STRENGTH K.S.I. | | STRENGTH K.S.I. | | | |
| | | | | MIN | MAX | MIN | MAX | MIN | MAX | | |
| K-839685 | | 1 | | 76.7 | 76.7 | 0.0 | 0.0 | | | 0.00 | |

COMMENTS:

M051 .098 REV H

MILL SOURCE KAISER

MADE IN USA

QQA-430

MAY 14 2007

K-AB-30685

A54690

| CHEM COM P | ALLOY | SILICON | | IRON | | COPPER | | MANGANESE | | MAGNESIUM | | CHROMIUM | | OTHERS | |
|--------------------|-------|---------|--------|--------|--------|----------|--------|-----------|--------|-----------|--------|----------|--------|--------|--------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| | 2017 | 0.2000 | 0.8000 | 0.0000 | 0.7000 | 3.5000 | 4.5000 | 0.4000 | 1.0000 | 0.4000 | 0.8000 | 0.0000 | 0.1000 | 0.0500 | 0.1500 |
| | | | | | | | | | | | | | | | |
| | | NICKEL | | ZINC | | TITANIUM | | | | | | | | | |
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX |
| | | 0.0000 | 0.0000 | 0.0000 | 0.2500 | 0.0000 | 0.1500 | | | | | | | | |
| ALUMINUM REMAINDER | | | | | | | | | | | | | | | |

**KAISER ALUMINUM
& CHEMICAL CORPORATION**

CERTIFIED TEST REPORT
600 KAISER DRIVE HEATH, OH 43056

SHIP TO

NICHOLS WIRE INC.
1547 HELTON AVE

FLORENCE

AL 35630

SOLD TO

NICHOLS WIRE INC.
1547 HELTON AVENUE
ATTENTION: AMANDA SOUTH

FLORENCE

AL 35630

NICHOLS 1804 01 8000 D I NSP404

MADE IN USA

| | | | | | |
|---------------------------------------------|-------|-------------|-----------------|-------------------------------|-------------------|
| CUSTOMER PURCHASE ORDER NO. & ITEM 11890 | | | | KAISER ORDER NO. 214475825 | |
| ALLOY 2017A | CLAD. | TEMPER O | GAUGE .37500 | WIDTH 00.0000 | LENGTH 000.000 |

ITEM ORDERED
ALY-JUMBO

CUSTOMER SPECIFICATION

| | | |
|-----------------------|--------------------|--------------------------|
| PART NUMBER 6D37L1 | S/L NUMBER 1804 | DATE SHIPPED 01/19/07 |
|-----------------------|--------------------|--------------------------|

| | | |
|--------------------------|----------------------|--------------------|
| WEIGHT SHIPPED 39,444 | NO. OF PIECES 175 | GOVT. CONTRACT NO. |
|--------------------------|----------------------|--------------------|

CERTIFICATION

KAISER ALUMINUM & CHEMICAL CORPORATION (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER HAS BEEN INSPECTED AND TESTED AND FOUND IN CONFORMANCE WITH THE APPLICABLE SPECIFICATIONS FORMING A PART OF THE DESCRIPTION SET FORTH IN KAISER'S SALES ORDER ACKNOWLEDGEMENT FORM. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS & CONDITIONS OF SALE.

John Despins *John L. Despins*
Technical Manager

| LOT NUMBER | NO. OF TESTS | | WGE | WGU | | | | | | | |
|------------|--------------|-----|------|------|----|----|-----|-----|------|-----|--|
| 839685 | 3 | MIN | 28.0 | 26.6 | | | | | | | |
| | | MAX | 28.0 | 26.9 | | | | | | | |
| 99-1F2 | 4.1 | Cu | Fe | Si | Mn | Mg | Zn | Cr | Zr | Ti | |
| | | | .30 | .38 | .6 | .6 | .2 | .04 | .003 | .02 | |
| 839686 | 3 | MIN | 28.0 | 25.6 | | | | | | | |
| | | MAX | 28.0 | 26.5 | | | | | | | |
| 3-1F2 | 3.9 | Cu | Fe | Si | Mn | Mg | Zn | Cr | Zr | Ti | |
| | | | .28 | .37 | .6 | .6 | .17 | .02 | .002 | .02 | |

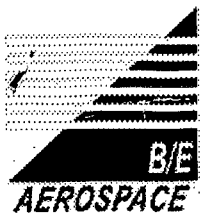
MAY 14 2007



AS4690
NICHOLS WIRE INC
K-839685

| CHEMICAL COMPOSITION (WT.%) | | | | | | | | | | | |
|-----------------------------|-----|----|-----|-----|-----|-----|-----|-------|-------|--------|--------|
| | Cu | Fe | Si | Mn | Mg | Zn | Cr | Zr | Ti | Others | Others |
| MIN | 3.5 | | .20 | .40 | .40 | | | Zr+Ti | Zr+Ti | Each | Total |
| MAX | 4.5 | .7 | .8 | 1.0 | 1.0 | .25 | .10 | .25 | 0.25 | .05 | .15 |

ALUMINUM REMAINDER



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: P023495

| LINE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|-------|----------|-----|-------------|-----------|------------------|----------------------------|-------|----------|----------|
| 7 | 15 | EA | AN833-6D | | 00027461-29278-3 | DESIGNED METAL DBA P 14798 | | | |


Jason Lewis
Vice President of Quality

03/25/14

PERMASWAGE

PERMASWAGE - Nelson Aerospace
A Designed Metal Connections, Inc. Company
10310 Norris Avenue
Pacoima, CA 91331
Ph: 818-686-0900
Fax: 818-686-0181

Pack Slip: 47701



Sales Order: 19844



Page: 1 of 1

Customer Packing Slip

Ship To:

B/E AEROSPACE CONSUMABLES MANAGEM
9835 NW 14TH ST
MIAMI FL 33172
USA

Verify AES requirements prior to shipment.

Sold To:

B/E AEROSPACE CONSUMABLES MANAG
PO BOX 025263
MIAMI FL 33102-5263
USA

Verify AES requirements prior to shipment.

Fax: 305-507-7194

Ship Date: 7/30/2013

Ship Via: FEDEX GROUND

F.O.B.: EX WORKS

Cust P.O.: OFSW39

Salesperson: JIM THOMPSON

| PO Line | Planned Qty | Shipped Qty | Back Order Qty | Part Number Description | Rev | Lot Number |
|-------------------------|-------------|-------------|----------------|-------------------------|-----|------------------|
| FEDEX GRD # 0331-0149-0 | | | | | | |
| | 2,400 | 1,079 | 1,138.00 | AN833-6D ELBOW | 8 | 00027461-29278-3 |

Sale Order / Line / Release: 19844 / 3 / 1

Customer PO Number: OFSW39

Certificates Required:

Standard Certification: No
Full Certifications: Yes

First Article Inspection: No
Chemical/Physical: No

Material Certificate: No
FAIR per AS9102: No

1 BOX - 15X15X10 - 27 LBS
1 BOX - 15X15X10 - 31 LBS

AN, MS, AS, NAS and other industry standard parts controlled by ECCN 9A991 and HTS 8803.30.00.00

Products listed have not been exposed to mercury or mercury compounds during the manufacturing process.

!! MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY PERMASWAGE -NELSON AEROSPACE SALES @ 818-686-0900 !!

WE HERBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STANDARDS ACT ON 6/25/83 AS AMENDED HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON. ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE. ALL PAST DUE ACCOUNTS SHALL BEAR INTEREST AT THE RATE OF 1 1/2% PER MONTH (18% PER ANNUM).

Certification of Conformance

NELSON AEROSPACE WARRANTS THAT THE ITEMS OF THIS SHIPPER WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM, ACCOMPANYING THE ITEMS OF THIS INVOICE, ARE IN CONFORMITY WITH CONTRACT REQUIREMENTS AND SPECIFICATIONS, GOVERNMENT OR OTHERWISE. NELSON AEROSPACE DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF THE FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF NELSON AEROSPACE IS EXPRESSLY LIMITED TO REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP. SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY NELSON AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE OR OTHERWISE, AND IN NO EVENT SHALL NELSON AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, NELSON AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

Country of Origin: MADE IN THE USA

BY RECEIVING DELIVERY OF THE GOODS COVERED BY THIS PACKING SLIP, BUYER EXPRESSLY ASSENTS TO THE TERMS AND CONDITIONS SET FORTH.

Manager of Quality Assurance or Designee

07/30/2013 2:43PM 00027461-29278-3 AN833-6D 8 CERT 366,376 07/31/2013 Unchanged



JENCO PLATING INC.

9536 Rush Street
South El Monte

CA 91733

SHIPPER/C of C

TEL: (626)443-6705

FAX: (626)443-5133



INVOICE

SHIPPER NO.

56696

Bill To: NELSON AEROSPACE
10310 NORRIS AVE.

Ship To: 10310 NORRIS AVE.

PACOIMA CA 91331

PACOIMA CA 91331

| DATE SHIPPED | SHIPPED VIA | TERMS | JOB NO. | PURCHASE ORDER NO. |
|--------------|-------------|-------|----------|--------------------|
| 7/29/2013 | | | 00027461 | 31540 |

| ITEM | QTY ORDERED | PART NUMBER / DESCRIPTION | REVISION | QTY SHIPPED |
|------|-------------|--------------------------------------------|----------|-------------|
| | 1,080 | AN833-6D ELBOW LOT: 00027461-29278-3 | | 1,080 |

ANODIZE PER MIL-A-8625F, AMEND 1, TYPE II
CLASS 2 COLOR BLUE WITH DUPLEX SEAL

DURABILITY FINISH INSPECTION ACCORDANCE
PER AS4841 PARA 4.7.1. 15 PCS



This is to Certify, All goods delivered
do not come in direct contact with mercury
mercury compounds or with any mercury
containing device in our facility.

WE CERTIFY THAT, EXCEPT AS OTHERWISE STATED, THE LISTED PARTS HAVE BEEN PROCESSED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NOTED PURCHASE ORDER/SPECIFICATION(S). RECORDS ARE ON FILE AND AVAILABLE FOR EXAMINATION.

BY:

[Signature]
QUALITY CONTROL
MANAGER

LOT: 00027461-29278-3

PERMASWAGE

CERTIFICATION OF CONFORMANCE

14800 South Figueroa St. Gardena, Ca. 90248-1795
Telephone: (310) 323-6200, Facsimile: (310) 329-2505

Apr/9/2013

Customer: Nelson Aerospace

Designed Metal Connections Inc., dba Permaswage USA, certifies that documentary evidence in the form of physical and chemical test reports and inspection records on this material and/or processes indicating conformance to the applicable specifications are on file and available for review at the seller's plant.

The parts so submitted meet dimensional, functional and quality requirements as covered on the purchase order number, part number and/or specifications.

The following information pertains to this purchase order:

29278

Item Number: **833-06DF**

Lot Number: **335219**

Ref. Customer Part Number:

Ref. Customer Part Number Rev.:

Quantity: **1,100.00**

Order Number: **263357**

Line Number: **003**

Pick Slip Number: **202485**

RMLC: 12D2013-013

HEAT: 10035364

CONTROL: 34925

Signature: _____



User Name: **SARKISIAN, VAHE**

Title: **Quality Assurance Representative**

"Sample (s): Customer Supplied"

TEST REPORT



ATLAS TESTING LABORATORIES, INC.

9820 6th Street, Rancho Cucamonga, CA 91730

909-373-4130

FAX 909-373-4132

YR/IG

DATE#: 02-16-13

ATL#: 328980

CLIENT: DESIGNED METAL CONNECTIONS
ATTN: ANA BARRAZA
14800 S. FIGUEROA
GARDENA, CA 90248

PN# 833-06DF
WO# 335219
RMLC# 12D2013-013
HEAT# 10035364

CONTROL# 34925
SIZE: .559 DIA. FORGING
QTY.: 1 PC.

ALLOY: 2014-T6

SPEC.: AMS-QQ-A-367D

MECHANICAL TEST, METHOD ASTM B557-10

| SPECIMEN ID | INSPECTION | | | | YIELD (2% OFFSET) | | ULTIMATE | | ELONGATION | | | LOC. OF FRACTURE (A) |
|--------------------|------------|--------------------|-------------|------------|--------------------|------|--------------------|------|-------------------|--------------|-----------|----------------------|
| | TEMP | VISUAL INSPECT OK? | ORIG. DIAM. | ORIG. AREA | ACTUAL LOAD IN LBS | KSI | ACTUAL LOAD IN LBS | KSI | ORIG. GAGE LENGTH | ACTUAL ELONG | PERCENT T | |
| L | RT | OK | 0.251 | 0.0495 | 2948 | 59.6 | 3387 | 68.5 | 1.00 | 1.125 | 12.5 | 1 |
| REQUIRED, MINIMUM: | | | | | | 58.0 | | 65.0 | | | 6.0 | |

Strain Rate: 0.005 inch per inch per minute

(A) 1 = Center Fracture; 2 = Outer Quarter Fracture; 3 = Fractured @ Gage Mark; 4 = Fractured @ Radius; 5 = Material Flaw/Defect

Remarks: Conforms to requirements.

Respectfully Submitted:

Date:

[Signature]
2/16/13 R. Leo Norton
C.E.O.

ATLAS TESTING SUBMITS THIS REPORT AS THE CONFIDENTIAL PROPERTY OF OUR CLIENT. REPRODUCTION IS AUTHORIZED, BUT ONLY IF IN FULL. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT INFORMATION TO THIS REPORT MAY BE PUNISHABLE UNDER FEDERAL LAW.



KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

| | | | | | |
|------------------------------------------------------------------------------|-----------------------|--------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------|
| CUSTOMER PO NUMBER: 43-101411-1 | | CUSTOMER PART NUMBER: | | PRODUCT DESCRIPTION: Forging Stock HA Round | |
| KAISER ORDER NUMBER: 677520 | LINE ITEM: 1 | SHIP DATE: 04/05/2012 | ALLOY: 2014 | TEMPER: F | |
| WEIGHT SHIPPED: 2008 lbs. | QUANTITY: 262 pcs. | SL NUMBER: 33757 | DIAM/DAF/THICKS: 0.8125 in. | WIDTH: 0.000 in. | LENGTH: 144.0 in. |
| SHIP TO: Braico Metals 15000 Northam Street La Mirada, CA 90638 USA | | | SOLD TO: Braico Metals 15000 Northam Street La Mirada, CA 90638 USA | | |

Test Code: 4000 AC

Actual Physical Properties

| | |
|------------|-------|
| Lot Number | LONG. |
| 10035364 | 0.0 |

Chemical Composition, WT. % (Aluminum Remainder)

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | OTHERS EACH | OTHERS TOTAL | Lot |
|--------|------|-----|-----|------|------|------|------|------|----------------|-----------------|----------|
| Actual | 0.93 | 0.3 | 4.7 | 1.01 | 0.60 | 0.06 | 0.18 | 0.02 | | | 10035364 |
| Max | 1.2 | 0.7 | 5.0 | 1.2 | 0.8 | 0.10 | 0.25 | 0.15 | 0.05 | 0.15 | |
| Min | 0.50 | | 3.9 | 0.40 | 0.20 | | | | | | |

Specifications

Standard: ASTM B247-09 TABLE 1, AMS-QQ-A-367 CHEM ONLY Non-Standard: AMS 4133D, Chem.
only BMS-7-186 K, Chem. BPS 4017 F-1, Sect. VI AMS-A-22771A, Chem only

D.M.C. RAW MATERIAL LOT
CONTROL# 12D2013-013

4-15-12
138

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

John Rennekamp

Plant Serial: 170273

Kaiser Order Number: 677520

Line Item: 1

Page 1 of 2

Sold to: D M C AEROSPACE PO: 55330 Part: 12D2013-013 Order No.: 140862

TR clerk signature: *[Signature]*

VA
130

LOT: 00027461-29278-3

KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

Wrought forging stock is produced to a controlled chemical composition, metal cleanliness level and dissolved gas level. Accordingly, the quality of Kaiser Aluminum Class I and II forging stock is such that properly forged and heat-treated, forgings produced from it can be expected to conform to the applicable Aluminum Association ultrasonic standards at a high level of recovery. When forgings are ultrasonically inspected before being placed in service and ultrasonic indications caused by stock quality are found to exceed the applicable Aluminum Association ultrasonic standard or the quality level of a negotiated standard, Kaiser Aluminum will replace such stock. Kaiser Aluminum assumes no other responsibility for ultrasonic quality than that described above. This material meets the requirements of Bell Helicopter Spec. BPS 4017F-1, Section VI. Material is RoHS compliant.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 170273

Kaiser Order Number: 677520

Line Item: 1

Page 2 of 2

Sold to: D M C AEROSPACE PO: 55330 Part: 12D2013-013 Order No.: 140662

TR clerk signature: _____



LOT: 00027461-29278-3



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23495

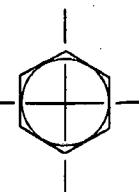
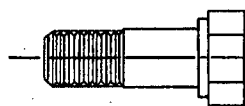
| LIN# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|------|----------|-----|-------------|-----------|------------|--------------|-------|----------|----------|
| 6 | 50 EA | | AN3112A | | 46409 | 3V FASTENERS | 1ER65 | | |


Jason Lewis
Vice President of Quality

03/25/14



320 REED CIRCLE • CORONA, CA 92879
PHONE 951/734-4391 FAX 951/734-0127



TEST CERTIFICATION

Cert # : 43956 Cert Date : 06/02/09 LOT # : 46409 Page: 1 of 1
Cust # : 3360 P.O. # : 0902504
Customer : HONEYWELL CONSUMABLES P.O. Qty : 2500
Ship To : ROANOKE, TX. Ship # : S-00033689
Part # : AN6C12A Ship Qty : 2300
Material Spec : MIL-S-18732D MFG. Part # : NASM6C12A REV.1
Type : 431 Heat # : 419432
Code : 11472 Mill, Vendor : VALBRUNA/CENTRAL WIRE
Procure Spec : NASM6812 REV.2

Hardness per NASM1312-6, ASTM E 18 or E 384
Minimum Requirement: 26-32 HRC

26.0 26.0 26.0 26.0 27.0

Metallurgical Tests
Hardness: N/A Grain Size: N/A Decarb: NONE

Metallurgical, Special Process and Subcontracted Test Information
THREADS INSPECTED PER MIL-S-8879C N3, AS8879D OR MIL-S-7742D A.1
MACRO AND MICROSTRUCTURE SATISFACTORY 5 PCS
HEAT TREAT PER AMS2759/5D BY CONTINENTAL #89170
PASSIVATE PER AMS2700C MET 1 TY2 BY ACTIVE #86912
SAMPLE FPI PER ASTM E 1417 05 BY ACTIVE #89734
DFARS 252.225-7014 ALT 1 ONLY AS IT APPLIES PER P.O.

Tensile per NASM1312-8
Minimum Requirement: 10100 LBS

Load : 13200 13500 13400 13260 13400
Failure: THD THD THD THD THD

THIS TEST CERTIFICATION SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF 3-V FASTENERS CO., INC. TESTING LABORATORY.
THIS CERTIFICATION SHALL NOT BE USED BY THE CUSTOMER TO CLAIM PRODUCT ENDORSEMENT BY ANY AGENCY OF THE U.S. GOVERNMENT.
3-V FASTENERS CERTIFIES THAT THE PRODUCT SHIPPED ON ABOVE PURCHASE ORDER WERE MANUFACTURED, INSPECTED AND TESTED IN COMPLIANCE WITH ALL APPLICABLE PRINTS AND SPECIFICATIONS. ALL SUPPORTING DOCUMENTATION IS ON FILE AT 3-V. REGISTERED ISO 9001:2000 PJR C01-1020, AND AS9100 / CAGE CODE 1ER65 / BAE APPROVAL BAE/AG/30148/CAL / AIRBUS APPROVAL 30085.


QUALITY ASSURANCE LAB SUPERVISOR

DANIEL E. HENSON

6-3-09

| | | | | | |
|------------------------|------|-------------------------|---------------------|-------------|--|
| 3V FASTENERS CO., INC. | | FINAL INSPECTION REPORT | | PG 1 OF 2 | |
| PART NUMBER | REV. | LOT # | LOT SIZE | SAMPLE SIZE | |
| AN6C12A | 1 | 46409 | 2364 | 125/13 | |
| DESC: HEX HD EXT. | | PRINT NUMBER | SAMPLING PLAN | | |
| 3/8-24 X 1.328 | | NASM3 THRU NASM20 | ANSI Z1.4 GLII, S-3 | | |

| PRINT CHARACTERISTIC | PRINT REQ. | ACTUAL | ACC. | REJ. | GAGE EQUIPMENT |
|---------------------------------------------------------------|---------------|---------------|------|------|----------------------|
| HEAD MARKING | — LQ90 | — L060 | ✓ | | VISUAL/10X |
| GRIP LENGTH $\pm .015$ | .703 — .673 | .690 — .686 | ✓ | | CALIPER/OPT.COMP. |
| LENGTH $\begin{smallmatrix} +.031 \\ -.016 \end{smallmatrix}$ | 1.350 — 1.312 | 1.331 — 1.322 | ✓ | | CALIPER |
| THREAD PITCH DIA. | .3479—.3450 | .3465—.3461 | ✓ | | TRI-ROLL |
| THREAD FUN. DIA. | .3479—.3450 | .3474—.3463 | ✓ | | TRI-ROLL/RING GAGE |
| THREAD MAJOR DIA. | .3750—.3678 | .3737—.3725 | ✓ | | MICROMETER |
| THREAD ROOT RADIUS | N/A | N/A | — | | OPTICAL COMPARATOR |
| THREAD MINOR DIA. | N/A | N/A | — | | TRI-ROLL/OPT.COMP. |
| GRIP DIAMETER | .374—.371 | .374—.373 | ✓ | | MICROMETER/OPT COMP |
| WRENCH FLATS | .565—.553 | .558—.555 | ✓ | | CALIPER |
| BEARING SURFACE DIA | .553—.523 | .542—.541 | ✓ | | OPTICAL COMPARATOR |
| BEARING SURF. HGT. | .026—.006 | .013—.009 | ✓ | | OPTICAL COMPARATOR |
| RADIUS UNDER HEAD | .015—.005 | .014—.012 | ✓ | | OPTICAL COMPARATOR |
| HEAD HEIGHT | .235—.203 | .223—.216 | ✓ | | CALIPER/MICROMETER |
| DIMPLE/RECESS DEPTH | N/A | N/A | — | | HEIGHT STAND |
| DIMPLE/RECESS WIDTH | N/A | N/A | — | | CALIPER/PIN GAGE |
| WRENCH POINT DIA. | N/A | N/A | — | | CALIPER |
| FIN THD, B/S, RAD, GRIP | 32/RA MAX. | < 32/RA | ✓ | | COMPARATOR GAGE/10X |
| FIN. ALL OTHERS | 125/RA MAX. | < 125/RA | ✓ | | COMPARATOR GAGE/10X |
| BURRS/SHARP EDGES | NONE ALLOWED | NONE | ✓ | | VISUAL/10X |
| BEARING SURF. SQ. | 2 DEG. MAX. | < 2° | ✓ | | OPTICAL COMPARATOR |
| SHANK STRAIGHTNESS * | .0025 | < .0025 | ✓ | | CONCE. GAGE/SUR. PLT |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| INSP. PERFORMED & ACCEPTED BY: <i>cm. [Signature]</i> <div style="text-align: center;">  </div> | DATE: 5-26-09 NEW DATE: December 8, 2004 38754 |
| REPORT PREPARED BY: DAN HENSON | |

FORM 11-1, REV 5 03/17/98

NOTES:

1. * PER INCH OF LENGTH



MTR

PERTH, ON
ERIN, ON
DUMAS, AR
LANCASTER, SC

613-267-3752 FAX 613-267-5817
519-833-8632 FAX 519-833-2213
870-382-2980 FAX 870-382-8988
803-283-3353 FAX 803-283-6303



UNION, IL
HOUSTON, TX
PERRIS, CA

815-923-2131 FAX 815-923-2128
713-466-1000 FAX 713-466-7425
951-657-2105 FAX 951-643-8061

THE LEADING MANUFACTURER OF STAINLESS STEEL, NICKEL AND COPPER ALLOY WIRE PRODUCTS
EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL sales@centralwire.com

11472

PERRIS SERVICE CENTER
2500 "A" STREET
TEL: 909-857-2105

PERRIS, CA 92570-8361
FAX: 909-843-6061



CERTIFICATE OF CONFORMANCE

SOLD
TO

3V FASTENERS
320 REED CIRCLE
CORONA,

CA 92879-1349

USA

SHIP
TO

3V FASTENERS
320 REED CIRCLE
CORONA,

CA 92879-1349

USA

| CUSTOMER'S PO NO. | TYPE OF CERT | CUSTOMER | ORDER NO. | WORK ORDER | DATE SHIPPED |
|-------------------|--------------|----------|-----------|------------|--------------|
| 14687 | Customer | 129433 | 1096466 | 4 4064672 | 6/25/07 |

SPECIFICATIONS:

AMS 5628F, AMS-S-18732, MIL-S-18732
* DPAR 252.225.7014 ALT I COMPLIANT *

ITEM DESCRIPTION

| DESCRIPTION | SPEC. CLASS | HEAT |
|----------------------------------------------------------------------------------|-----------------------------------------------------|--------|
| Cold Heading 431 SKIN PASSED Seam Free .3715 Coils Std. Copper/Techcoat | Melt mill VALBRUNA Country of origin ITALY | 419432 |
| | QTY SHIP 408 | 055 |

CHEMICAL ANALYSIS

| C | MN | SI | P | S | CR | NI |
|-----|-----|------|------|------|-------|------|
| .14 | .56 | .36 | .024 | .001 | 15.58 | 1.58 |
| MO | CU | N | | | | |
| .07 | .12 | .025 | | | | |
| | | | | | | |

MECHANICAL PROPERTIES

AS SHIPPED PROPERTIES:

| TENSILE | | | | | | |
|---------------|--|--|--|--|--|--|
| 95.000 KSI | | | | | | |

AFTER HEAT TREAT PROPERTIES: * SEE BELOW

| TENSILE | YIELD | ELONGATION | R/A | | | |
|----------------|----------------|------------------|-------------|--|--|--|
| 213.000 KSI | 176.000 KSI | 14.000 % (4D) | 50.000 % | | | |



MICROSTRUCTURE: BANDED & BLOCKY FERRITE, BANDED & BLOCKY AUSTENITE-ACCEPTABLE
* 1875 F +/- 25 F 30 MN, QUENCHED IN OIL AT 125 F +/- 25 F, COOLED TO ROOM
TEMPERATURE IN WATER, SOAKED IN LIQUID AT -100 F +/- 20 F NOT LESS THAN 2
HOURS, TEMPERED IN AIR AT 550 F +/- 25 F FOR 2 HRS, AND RETEMPERED IN AIR
AT 550 F +/- 25 F FOR 2 HOURS. RON MATUEWEZSKI, QUALITY CONTROL SUPERVISOR

The material as shipped is free from mercury contamination. I certify the
chemical analysis and physical and mechanical test results reported above are
correct as contained in the records of the company.

Very truly yours,

[Signature]
AUTHORIZED SIGNATURE

PHL

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204, 3.1

13472

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Bestell-/Purchase/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Avviso di Spedizione: D-BZ07002178
Lieferungs-/Packung Nr./B.L.

Certificato nr: MEST470215/2007/
Prüfung/Teil/Essai

Conferma ordine nr: EV06000456
Werk/Our Order/Réel nr.

Produttore: STABILIMENTO DI BOLZANO
Hersteller/Item/Usine productrice

Ordine nr: 19623 CENTRAL/TECH.PO
Bestell/Your order/Commande

Marchio di Fabbrica:
Zahlen des Lieferwerkes
Trade mark
Sigle de l'usine, productrice

Oggetto Prova: Descaled Annealed Hotrolled
Prüfgangend/Item Inspected/Prüfsatz

Tipo di Elaborazione: E+AOD
Erstellungszugent/Welting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's Stamp/Plaque de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences
D.3.PRS.079.S 2005 431 A

ASTM A370 2005.

Qualità: 431
Werkstoff/Grade/Qualität

Marca: VAL4R
Markenbezeichnung/Brand/Qualität

Punzonatura: 431
Kennzeichnung/Marking/Markierung

| Pos. nr. Pos. nr. Item nr. Nr. de poste | Oggetto Gegenstand Product description Description du produit | Dimensioni - in Abmessungen Dimension Dimension | Tolleranza Toleranz Allowance Tolérance | Lunghezza - in Länge Length Longueur | Colata Schmelze Heat Coulée | Pezzi Stückzahl Pieces Pièces | Peso - LB Gewicht Weight Poids | Lotto nr. Losn. Lot nr. Lot nr. |
|--------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------|----------------------------------------|-----------------------------------------|------------------------------------------|
| 0010 | Round | 0,4724 | 484-05A | / | 419432 | | 6.792 | 634601750 |

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind lt. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK
Verwachsungsprüfung: spektralanalytisch durchgeführt
Antilocking testing performed: OK
Contrôle antimesclage (lit. r.a.s.)

Controllo visivo e dimensionale: soddisfatta le esigenze:
Blickprüfung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

| TEST | Prova/Prüfung Spezimen/Exposant Long diam Spec Größe Diam. Größe Vinch diam. Thickness Lég. diam. épais mm | °F | Posti. Saglie Position Lieu Position | Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.l. | Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.l. | Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l. | Allungamento Bruchdehnung Elongation Allongement E 4d % | Strizione Einschnürung Reduction of area Striction RA % | Resilienza Hochschlagarbeit Impact Value Resilience | Durezza Härte Hardness Dureté HB |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|
| Valori richiesti 1 Anforderungen/Required values Valeurs demandées | min max | | | | | 123 | | | | |
| A | 8.75 | 68 | L | 94 | | 121 | 24 | 58 | | 262 |

Sample hardened and double tempered

| Tipo Trattamento | Temperatura | Raffreddamento | Permanenza | Tipo Trattamento | Temperatura | Raffreddamento | Permanenza | Tipo Trattamento | Temperatura | Raffreddamento | Permanenza |
|----------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|----------------------------------|-----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------|----------------------------|--------------------------|-----------------|------------|
| Wärmebehandlung | Temperatur | Abkühlung | Haltezeit | Wärmebehandlung | Temperatur | Abkühlung | Haltezeit | Wärmebehandlung | Temperatur | Abkühlung | Haltezeit |
| Heat Treatment | Temperature | Cooling | Retention | Heat Treatment | Temperature | Cooling | Retention | Heat Treatment | Temperature | Cooling | Retention |
| Traitement Thermique | Température | Refroidissement | Maintien | Traitement Thermique | Température | Refroidissement | Maintien | Traitement Thermique | Température | Refroidissement | Maintien |
| Hardening | 1875 °F | OIL | | First tempering | 550 °F | AIR | | Second tempering | 550 °F | AIR | |
| TEST | Prova/Prüfung | Posti. Saglie | Snervamento | Snervamento | Resistenza | Allungamento | Strizione | Resilienza | Durezza | | |
| | Spezimen/Exposant Long diam Spec Größe Diam. Größe Vinch diam. Thickness Lég. diam. épais mm | °F Hochschlag Lieu Position | Yield Stress Limite élastique Rp 0,2% k.s.l. | Yield Stress Limite élastique | Tensile strength Résistance à traction Rm k.s.l. | Bruchdehnung Elongation Allongement E 4d % | Reduction of area Striction RA % | Impact Value Resilience | Hardness Dureté HB | | |
| | | | 150 | - | 200 | - 10 | - 40 | - | - | | |
| | Valori richiesti 1 Anforderungen/Required values Valeurs demandées | min max | | | | | | | | | |
| B | 8.75 | 68 L | 176 | | 213 | 14 | 50 | | | | |

1) L=longitudinale/längs, Q=trasversale/quer, T=tangenziale/tangentiell

TEST C: hardened from 1024C/oil and tempered from 635/air,
according to AMS 5628F.
Grain size for ASTM E112 : 4
FERRITE DELTA % : 0



Analisi chimica

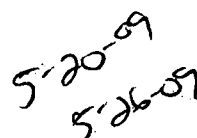
Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

| Colata / Heat Schmelze / Coulee | min 0,12 max 0,17 | 0,20 0,60 | 0,30 0,80 | 15,50 16,50 | 0,25 | 0,50 | 1,50 1,75 | 0,040 | 0,030 | 0,100 | | | | | |
|------------------------------------|----------------------|--------------|--------------|----------------|------|------|--------------|-------|-------|-------|--|--|--|--|--|
| C % | Si % | Mn % | Cr % | Mo % | Cu % | Ni % | P % | S % | N % | | | | | | |
| 419432 | 0,14 | 0,36 | 0,56 | 15,58 | 0,07 | 0,12 | 1,58 | 0,024 | 0,001 | 0,025 | | | | | |

Banded Ferrite and Austenite conform to the AMS 5628F.
Material is DFARS Compliant

| | | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|
| Bolzano, 20/03/07 001.008 (Mod. NCERI) | Il collaudatore di stabilimento / der Werkstoffverständige / Works Inspector / L'agent d'usine M. Lestani | Pagina - 1 di 2 |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------|

11/03/07 3 PRS. 079. S
4 17-7



3V
INSP
03

SOLD TO: 3V FASTENERS
320 REED CIRCLE
CORONA , CA 92879
(951) 734-4391

TERMS: net 30

RECEIVED
MAY 2 9 2009

PASSIVATÈ

Other

MAGNETIC SPECIFICATIONS

Acceptance Criteria

[illegible]

Reason Rejected

FLOURESCENT PENETRANT SPECIFICATIONS

Acceptance Criteria: 7ASTM E 1417-05 NASM6812

[illegible]

Reason Rejected

QC NDT Level 2: REYES HERNANDEZ

*This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification were processed, inspected & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.

ORIGINAL CERTIFICATION/TEST REPORT

89612

**MAGNETIC
INSPECTION, INC.**

5-13-09

SOLD TO: 3V FASTENERS
320 REED CIRCLE
CORONA, CA 92879
(951) 734-4391

3V
INSP
03

| DATE CERTIFIED | DATE RECEIVED: | DATE TESTED: | CUSTOMER P.O. | PACKAGING METHOD |
|----------------|----------------------------------|--------------|---------------|------------------|
| 05-11-2009 | 05-02-09 | 05-11-2009 | 89612 | 3 Pan |
| QUANTITY | PART NO. | DESCRIPTION | UNIT | AMOUNT |
| 2343 126# | AN6C12A R/N# 46409 | PENE PASS | | |
| | SALT SPRAY | | | |
| | Salt Spray 13 pps Acc: 13 Rej: 0 | | | |
| | 4 HOURS SALT SPRAY TEST | | | |
| RECEIVED | | | | |
| MAY 12 2009 | | | | |

TOTAL

Other

MAGNETIC SPECIFICATIONS

Acceptance Criteria

[illegible]

Reason Rejected

FLOURESCENT PENETRANT SPECIFICATIONS

Acceptance Criteria

/ASTM-E-1417-05 NASH6812

[illegible]

Reason Rejected

PC NPT Level 2: REYES HERNANDEZ

*This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification was processed, inspected & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.

ORIGINAL CERTIFICATION/TEST REPORT



10643 S. NORWALK BL.
SANTA FE SPRINGS
CALIFORNIA 90670
562-944-8808
800-622-6624
FAX 562-944-1499

CERTIFICATION

89170
CERTIFICATION NUMBER
531333

S
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3 V FASTENERS
320 REED CIRCLE
CORONA, CA 92879-1349



S
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3 V FASTENERS
320 REED CIRCLE
CORONA, CA 92879-1349

| | | | |
|-----------------|---------------|----------------------|------------------|
| CUSTOMER NUMBER | DATE RECEIVED | CUSTOMER P.O. NUMBER | CUSTOMER SHIPPER |
| 0450045 | 04/08/09 | 89170 | |

| QUANTITY | WEIGHT | PART NUMBER / DESCRIPTION |
|----------|--------|-------------------------------------------------|
| 2358 | 127 | AN6C12A RTR# 46409 H/T, 125-145 KSI PER P.O. |
| | | 3 PANS |

| MATERIAL | HARDNESS | MAX-CROSS SECTION | CASE DEPTH | CORE HARDNESS |
|---------------------------|---------------------------|-------------------|------------|---------------|
| 431 S/S SPECIFICATIONS | 27-32 HRC AMS 2759/5 D | .375 | | |

| PROCESS | SPEC TEMP | SPEC TIME | EQUIP. | ACT TEMP | TIME IN | TIME AT-HEAT | TIME OUT | ATMOS DEWPT | Q-MED & TEMP | DATE |
|---------------|-----------|-----------|--------|----------|----------------|--------------|-----------|-------------|--------------|-------|
| RACK | | | RACK | | .08 | Y | | | | 04/13 |
| PRECLEAN | 140 | :05 | WASH | 140 | 10:00 | 10:00 | 10:05 | AIR | A/C | 04/13 |
| LOADCOUPLE | | | WIRE | | .08 | Y | | | | 04/13 |
| SET V P | | | ATMOS | | .02 | Y | | | | 04/13 |
| PREHEAT | 1400 | :30 | V5 | 1400 | 18:34 | 20:45 | 21:15 | VAC | RAISE | 04/13 |
| AUSTENITIE | 1875 | 2:00 | V5 | 1875 | 21:15 | 22:10 | 00:10 | VAC | OIL | 04/13 |
| SUBZERO | -100 | 2:00 | CB1 | -100 | 03:00 | 03:10 | 05:10 | NIT | A/W | 04/14 |
| SNAPTEMPER | 300 | 2:00 | D18 | 300 | 07:30 | 07:40 | 09:40 | AIR | A/C | 04/14 |
| LOADCOUPLE | | | WIRE | | .08 | Y | | | | 04/28 |
| SET V P | | | ATMOS | | .01 | Y | | | | 04/28 |
| TEMPER 15 | 1125 | 3:05 | V8 | 1125 | 05:00 | 7:05 | 10:10 | VAC | GFC | 04/28 |
| TEST RESULTS: | 27-28 HRC | | | | LAB#:410/07911 | TEST:1 | ACCT:2358 | REJT:0 | | |
| LOADCOUPLE | | | WIRE | | .08 | Y | | | | 04/28 |
| SET V P | | | ATMOS | | .08 | Y | | | | 04/28 |
| TEMPER 15 | 1125 | 3:00 | V8 | 1125 | 10:55 | 13:25 | 16:25 | VAC | GFC | 04/28 |
| GLASS BEAD | | | B1 | | 2.00 | Y | | | | 04/29 |



SPC

HARDNESS:27-28 HRC QTY TESTED:8 QTY ACCT:2358 QTY REJT:0

| | | |
|----------------|----------|-------------------------------|
| INSPECTOR | DATE | QUALITY MANAGER |
| RANDALL THOMAS | 04/29/09 | JIMMY MARTINEZ for DON LOWMAN |

This Process Certification covers thermal processing and/or hardness testing only. No particular mechanical properties of any material should be assumed, or are implied, as a result of the thermal processing and/or hardness testing of this Process Certification.
ALL FURNACES CERTIFIED TO MEET THE REQUIREMENTS OF AMS-H-6875, CURRENT REVISION. HARDNESS TESTING PERFORMED TO THE LATEST REVISION OF ASTM E 384, ASTM E 10, ASTM E 110, ASTM E 18, ASTM E 140 AND ASTM A 370.

Acciaierie Valbruna S.p.A.



11472
CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Produttore: STABILIMENTO DI BOLZANO
Hersteller/Manufacturer

Oggetto Prove: Descaled Annealed Hotrolled
Prüfungsgenstand/Item Inspected/Finissage

Avviso di Spedizione: D-BZ07002178
L'etiquetage/Packaging No.0.L.

Ordine nr: 19623 CENTRAL/TECH.PO
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erweiterungserweiterung/Working process/Mode d'elaboration

Certificato nr: MEST470215/2007/
Prüfung/Festl./Essai

Conferma ordine nr: EV06000456
Works/Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Style de l'usine productrice



Punzone del Collaudatore:
Stempel des Werksechverständigen
Inspector's stamp/Pointon de l'inspecteur



Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S



PHC

Bolzano, 20/03/07

BDL006
(Mod. MCER)

Il collaudatore di stabilimento / der Werksechverständige / Works inspector / L'agent d'usine

M. Lestari *M. Lestari*

Pagina - 2 di 2



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: P023495

| LNE# | QUANTITY | U/M | PART-NUMBER | CUST REF# | LOT-NUMBER | MANUFACTURER | CCODE | MFR DATE | EXP DATE |
|------|----------|-----|--------------|-----------|------------|---------------|-------|----------|----------|
| 19 | 2000 | EA | MS27039C1-08 | | 65918 | MAC FASTENERS | ORPT4 | | |


Jason Lewis
Vice President of Quality

03/25/14

MACFASTENERS, INC.

1110 Enterprise Street
Ottawa, KS 66067
Phone: 785-242-8812
Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT
To: 10000 NW 15TH TERRACE
MIAMI, FL 33172

Ship B/E AEROSPACE CONSUMABLES MGMT
To: 9835 NW 14th Street
Miami, FL 33172
United States

Shipment No: 59306
Shipment Date: 06/20/13
Ship Via: United Parcel Service
Order Number: 46949
Order Date: 12/03/12

Customer Code: BE AEROSPACE
Phone: (305) 925-2600
PO Number: 0LTJ29
Terms: Net 30 Days

LOT #65918

| <u>Item</u> | <u>Quantity</u> | | | | <u>Unit</u> | <u>Description</u> | <u>Job Number</u> |
|-------------|-----------------|----------------|-----------------|-----------------|-------------|--------------------------------------------------------------------------------|-----------------------|
| | <u>Open</u> | <u>Shipped</u> | <u>Back Ord</u> | <u>Canceled</u> | | | |
| 2 | 100,000 | 148,500 | 0 | | M | MS27039C1-08 Screw machine pan head structural cross recessed A286 material | 65918 |

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0LTJ29

PART NUMBER: MS27039C1-08

REV: 3

LOT NUMBER: 65918

MANUFACTURED QUANTITY: 148,500

MILL HEAT NUMBER: 45FM

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request

DATE: 06/19/13


QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Registered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 EAST ENTERPRISE
OTTAWA, KS 66067

CHEMICAL & PHYSICAL TEST REPORT

| | | | |
|------------------------------------|----------------------------|--------------------------------|-------------------------------------|
| CUSTOMER B/E AEROSPACE | PO NUMBER 0LTJ29 | MFG QUANTITY 148,500 | DATE 06/19/13 |
| PART NUMBER MS27039C1-08 | REV 3 | LOT NO 65918 | PROCUREMENT SPEC NASM7839 |

| MATERIAL | | | | MATERIAL SPECIFICATION | | | | MILL HEAT NUMBER | | | SUPPLIER | | |
|-----------|-----|-----|--------|------------------------|-----|-------|-------|------------------|-----|------|----------|-------|------|
| TYPE A286 | | | | AMS5731/AMS5737 | | | | 45FM | | | BRWN PAC | | |
| C | SI | Mn | P | S | Cu | NI | Cr | Mo | V | B | Fe | Al | Ti |
| .024 | .09 | .23 | .014 | .0003 | .07 | 24.58 | 14.60 | 1.18 | .21 | .006 | 56.62 | .20 | 2.08 |
| | Co | N | Bi | Pb | Mg | Zn | | Nb | Sn | | | Other | |
| | .05 | | .00001 | .0001 | | | | | | | | | |

MECHANICAL TEST RESULTS - TESTING PER NASM1312

| ULTIMATE TENSILE STRENGTH POUNDS | |
|-------------------------------------|-------|
| 4,380 | 4,380 |
| 4,420 | 4,390 |
| 4,400 | 4,380 |
| 4,410 | 4,400 |
| 4,390 | 4,400 |
| 4,410 | |
| 4,400 | |
| 4,400 | |
| MIN. REQ. | 2500 |

| DOUBLE SHEAR STRENGTH POUNDS / PSI |
|---------------------------------------|
| TOO SHORT TO TEST PER NASM1312-13 |
| MIN. REQ. |

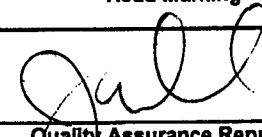
| HARDNESS | |
|--------------------|-------------|
| ROCKWELL "C" SCALE | |
| REQ. | 24 - 37 HRC |
| SAMPLE SIZE | 13 |
| ACTUAL RESULTS | |
| 36-37 HRC | |

| METALLURGICAL EXAMINATION | | | |
|-------------------------------------------------|-------------------------------------|-----------------------------------------------|-------------------------------------|
| Discontinuities | <input checked="" type="checkbox"/> | Carb/Decarb | <input type="checkbox"/> |
| Grain Flow | <input checked="" type="checkbox"/> | Microstructure | <input checked="" type="checkbox"/> |
| Grain Size | <input checked="" type="checkbox"/> | Appearance | <input checked="" type="checkbox"/> |
| Thread Inspection FED-STD-H28/20 - ASME B1.3 | System <input type="checkbox"/> 21 | System <input checked="" type="checkbox"/> 22 | System <input type="checkbox"/> 23 |

| NDT/ ADDITIONAL TESTS | |
|------------------------------------------------|-------------------------------------|
| Magnetic Particle Inspection per ASTM E1444 | <input type="checkbox"/> |
| Liquid Penetrant Inspection per ASTM E1417 | <input type="checkbox"/> |
| Recess Torque Test | <input type="checkbox"/> |
| Head Marking | <input checked="" type="checkbox"/> |

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.


 Quality Assurance Representative
AS9100C REGISTERED
SAI GLOBAL - 0058029

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 06/19/13

PO NUMBER: 0LTJ29

MANUFACTURED QUANTITY: 148,500

LOT NUMBER: 65918

MATERIAL: TYPE A286

PART NUMBER: MS27039C1-08

REVISION: 3

REQUIRED HARDNESS: 24 - 37 HRC

SAMPLE SIZE: 13

HARDNESS: 36-37 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.



QUALITY ASSURANCE REPRESENTATIVE

DE TRAY

Plating Works

Specialized Electro-Plating and Polishing
Nickel
Copper
Decorative Chrome
Satin Chrome
Zinc
Cadmium
Passivate
Bright Dip
Strip Copper
Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Phone (816) 252-8411 Fax (816) 252-8527 • E-mail : DeTrayPlating@Aol.com

Passivate Treatment per QQ-P-35C/SAE AMS QQ-P-35/AMS 2700

CUSTOMER: Mac Fasteners Lot#: 65918
PART NUMBER: MS27039C1-08
PROCUREMENT SPECIFICATION: n/a
OTHER CONTRACTURAL REQUIREMENTS:
MATERIAL: A286
QUANTITY: 920 lbs
INVOICE NUMBER: 170730

Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with QQ-P-35C/SAE AMS-QQ-P-35, AMS2700 and part standard.

DE TRAY PLATING WORKS

NAME: James V. Lison

JOB TITLE: VICE-PRESIDENT

DATE: 6/17/2013



BROWN-PACIFIC, INCORPORATED
13639 BORA DR. / SANTA FE SPRINGS / CALIFORNIA 90670
(562) 921-3471 • (562) 921-7012 FAX

MATERIAL TEST REPORT

| | | | | |
|--------------------|--------------------------------------------------------------------------------------------|----------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F.O.B. SFS | | SHIP VIA TDLogistics | JOB NO. | INVOICE NO. -0- 78239 |
| SHIP TO SOLD TO | MACFASTENERS, INC. 1110 ENTERPRISE STREET OTTAWA, KS 66067 | | ORDER DATE 09/28/12 | THIS MATERIAL WAS MANUFACTURED AND TESTED IN CONFORMANCE WITH THE NOTED SPECIFICATIONS. THE INFORMATION PRESENTED HEREIN IS CORRECT AS CONTAINED IN THE COMPANY RECORDS. FACILITY IS MERCURY & RADIOACTIVE FREE. BY: <i>[Signature]</i> G. MORENO, LAB |
| | | | CUST. P.O. NO. 78285 | |
| | | | DUE DATE 04/30/13 | |
| SHIP TO SOLD TO | MACFASTENERS, INC. 1110 ENTERPRISE STREET OTTAWA, KS 66067 | | 6COILS 2652 # | 4/30/2013 GM |
| | PRODUCT ORDERED | | QTY. ORDERED | DFAR 252.225-7014 ALT. 1 COMPLIANT |
| | 0.328 DIA TYPE A-286 CONVERTED TO 0.1876/0.1886 DIA SEAMSAFE MIRAFLEX COATED COIL | | 2500 | KNOWINGLY OR WILLFULLY RECORDING FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW, TITLE 18, CHAPTER 47. |

SPECIFICATIONS
CAP OF 5853C 5731L 5737P

| GRADE | MILL NO. | HEAT NO. |
|-------|----------|----------|
| A-286 | 18 | 45FM |

CHEMICAL ANALYSIS

| | |
|-----------|-------------|
| C: .024 | AL: .20 |
| MN: .23 | TI: 2.08 |
| P: .014 | B: .006 |
| S: <.0003 | CB: |
| SI: .09 | TA: |
| NI: 24.58 | CB+TA: |
| CR: 14.60 | CU: .07 |
| MO: 1.18 | SE: |
| CO: .05 | N: |
| V: .21 | FE: 56.62 |
| CA: | PB: <.0001 |
| MG: | BI: <.00001 |
| ZR<.01 | |

ASTM GRAIN SIZE: 7/8

ALLVAC, USA

MACRO:

MICRO:

OTHER:

MECHANICAL PROPERTIES AND CAPABILITY

| AS SHIPPED PROPERTIES | TENSILE, KSI | YIELD, KSI | % ELON |
|---------------------------------|--------------|-------------|------------|
| | 106.1 | | |
| % RA | | HARDNESS | SHEAR, KSI |
| ETT °F | TENSILE, KSI | YIELD, KSI | % ELON |
| | | | % R.A. |
| STRESS RUPTURE | TEMP °F | STRESS, KSI | HOURS |
| | 1200F | 65 | 48.0 |
| | TEMP °F | STRESS, KSI | HOURS |
| | 1200F | 70 | 48.0 |
| | | | % ELON |
| | | | 16.6 |
| | | | 15.6 |
| H.T. PROCEDURE | | | |
| 1650F 2HRS W/Q, 1325F 16HRS A/C | | | |
| | TENSILE, KSI | YIELD, KSI | % ELON |
| | 163.4 | 109.7 | 28.1 |
| % R.A. | 56.0 | HARDNESS | SHEAR, KSI |
| | | RC 33 | |
| H.T. PROCEDURE | | | |
| 1800F 1HR W/Q, 1325F 16HRS A/C | | | |
| | TENSILE, KSI | YIELD, KSI | % ELON |
| | 160.5 | 102.0 | 28.1 |
| % R.A. | 55.5 | HARDNESS | SHEAR, KSI |
| | | RC 30 | |
| H.T. PROCEDURE | | | |
| 1250F 8HRS A/C | | | |
| | TENSILE, KSI | YIELD, KSI | % ELON |
| | 175.0 | 138.9 | 28.0 |
| % R.A. | 55.3 | HARDNESS | SHEAR, KSI |
| | | RC 31 | |

Traveler(s)
75828 A

Heat #
45FM

Ingot#

CERTIFICATE OF TEST

Page 1 of 6

ATI Allvac
4374 Lancaster Highway
Richburg, SC 29729
Phone (803) 789-3595

Customer Name
BROWN PACIFIC INC.
13639 Bora Drive
Santa Fe Springs, CA

Purchase Order
M2695C-301

Size Alloy
.328" Rd. A-286

PCS
36

Weight
33035 lbs

Prof 1 Rev 0

Tina Coletti

Date: 03/04/2013 Quality Auditor: Tina Coletti

CONDITION SHIPPED

SURFACE: Hot Rolled; Descaled

HEAT TREAT: Mill Annealed / Direct Quenched

SPECIFICATIONS

| | | | |
|-------|------------|--------|----------|
| S-400 | 10/15/2012 | S-4001 | 06/18/12 |
|-------|------------|--------|----------|

HEADER REMARKS/

Capability: AMS 5731 Rev. L
Chemistry only: AMS 5853 Rev C
Capable of: AMS 7235 Rev. D

AMS 5732 Rev J
C50T35 Rev 84 Am7

AMS 5734 Rev K
AMS 5737 Rev P
ASTM A-453 Rev 2011 Type 660

CHEMISTRY

CR EQ = Chromium Equiv

Cb = Nb

| | C | S | Mn | Si | Cr | CR EQ | Mo | Co | Ti | Al | B | Zr |
|----------|------|--------|-----|-----|-------|-------|------|-----|------|-----|------|------|
| HEAT AVG | .024 | <.0003 | .23 | .09 | 14.60 | - | 1.18 | .05 | 2.08 | .20 | .006 | <.01 |

Traveler(s) Heat # Ingot#
 75828 A 45FM ATI Allvac 4374 Lancaster Highway Richburg, SC 29729 Phone (803) 788-3595 Page 2 of 6

| | Fe | Cu | Ni | P | Cb | Ta | W | V | Cb+Ta | Ti+Al | Ni+Co | Y |
|----------|-------|-----|-------|------|-----|------|-----|-----|-------|-------|-------|---|
| HEAT AVG | 56.62 | .07 | 24.58 | .014 | .02 | <.01 | .06 | .21 | .02 | 2.28 | 24.63 | - |

CHEMISTRY (TRACE)

| | Bi | Ca | Pb | Se | Ag | Sb |
|-----------|---------|--------|--------|---------|-------|-------|
| HEAT AVG | - | - | - | - | - | - |
| LADLE AOD | <.00001 | <.0010 | <.0001 | <.00005 | .0001 | .0005 |

CHEMISTRY METHOD

ELEMENTS TESTED BY METHOD

| | |
|--------|-----|
| WET-PB | PB |
| WET-BI | BI |
| WET-SE | SE |
| WET-SB | SB |
| OES-CA | CA |
| OES-AG | AG |
| CS-CS | C,S |
| OES-B | B |

CHEMISTRY REMARKS

Chemistry tested at ATI ALLVAC unless otherwise noted.

CHEMISTRY ANALYTICAL METHODS

CS = Combustion/IR Detection

GAS = Inert Gas Fusion

OES = Spark Optical Emission

XRF = X-Ray Fluorescence

WET = Graphite Furnace Atomic Absorption (Se) and Mass Spectroscopy (Pb,Bi,Sb)

| | | Capability | | | | | | Tensile Test | | | | | | |
|-----------|-------|-----------------|----------|--------|---------|--------------|----------------|--------------|----|------|-------------|----|------------------|--------------|
| Operation | Ingot | Heat Treat Code | Test Dir | Temp F | UTS ksi | 2% Yield ksi | .02% Yield ksi | %EL | | | Gage Length | | Tensile Diameter | Tested At |
| | | | | | | | | 4D | 5D | %RA | 4D | 5D | | |
| | | 1650EK | LC | ROOM | 163.4 | 109.7 | | 28.1 | | 56.0 | .64 | | .1618 | WESTMORELAND |
| | | 1800MB | LC | ROOM | 160.5 | 102.0 | | 28.1 | | 55.5 | .64 | | .1612 | WESTMORELAND |
| | | 48A | LC | ROOM | 93.1 | | | | | | | | .329 | ACUREN |

Test Dir: L = Longitudinal, T = Transverse, ST = Short Transverse, LT = Long Transverse,
 TC = Transverse Center At Size, TM = Transverse Mid-Radius At Size,
 PC = Pancake, DB = Drawbar, PD = Paddle, TT = Top Transverse At Size,
 BT = Bottom Transverse At Size, LC = Long Center, TX = Top Transverse Mid-Radius At Size,
 LM = Longitudinal Mid Radius, LS = Longitudinal Surface, TS = Transverse Surface
 Operation: SUPER = Crosshead Sep Rate of .10 inches/minute

| | | Capability Stress Rupture | | | | | | | | | | | | | | | | | | | | | Bar | Type |
|--------|---------------------------------------------------------|---------------------------|--------|----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|-----------|-----------|--------------|--------|----|------|-------|------|
| Ingot# | HT Tr Code | Test Dir | Temp F | Load Ksi | Lt# Hrs | Upid1 Ksi | Lt# Hrs | Upid2 Ksi | Lt# Hrs | Upid3 Ksi | Lt# Hrs | Upid4 Ksi | Lt# Hrs | Upid5 Ksi | Lt# Hrs | Upid6 Ksi | Lt# Hrs | Upid7 Ksi | Lt# Hrs | %EL 4D | 5D | %RA | Diam | Bar |
| | 1650EK | LC | 1200 | 85 | 48 | 70 | 63 | 75 | 88.7 | - | - | - | - | - | - | - | - | - | - | 18.6 | | 28.3 | .1606 | CSN |
| | Notch Radius = .0045 BAR RUPTURED IN THE SMOOTH SECTION | | | | | | | | | | | | | | | | Tested At | | WESTMORELAND | | | | | |
| | 1800MB | LC | 1200 | 70 | 48 | 75 | 63 | 80 | 71.0 | - | - | - | - | - | - | - | - | - | - | 15.6 | | 20.3 | .1800 | CSN |
| | Notch Radius = .0045 BAR RUPTURED IN THE SMOOTH SECTION | | | | | | | | | | | | | | | | Tested At | | WESTMORELAND | | | | | |

Test Dir: L = Longitudinal, T = Transverse, ST = Short Transverse, LT = Long Transverse, TC = Transverse Center at size, TM = Transverse Mid-Radius At Size,
 PC = Pancake, DB = Drawbar, PD = Paddle, TT = Top Transverse At Size, BT = Bottom Transverse At Size, LC = Long Center, TX = Top Transverse
 Mid-Radius At Size, LM = Longitudinal Mid Radius, LS = Longitudinal Surface, TS = Transverse Surface
 Type Bar: TBR = Smooth, CN = Center Notch, CSN = Combination Smooth and Notch

| | | CAPABILITY HARDNESS | | | |
|-------|-----------------|---------------------|---------------|-----------|--|
| Ingot | Heat Treat Code | Hardness val | Hardness Type | Tested At | |
| | 1650EK | 33 | HRC | ACUREN | |
| | 1800MB | 30 | HRC | ACUREN | |
| | 48A | 26 | HRC | ACUREN | |

Traveler(s)
75828 A

Heat #
457M

Ingot#

ATI Allvac 4374 Lancaster Highway

Richburg, SC 29729

Phone (803) 789-3595

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TENSILE/STRESS RUPTURE HEAT TREATMENT

| HT Code: 1650EK | | | | | Furnace Cool Rate Per Hrs (F) | Cool Code |
|-----------------|-----------|-------|------|--|----------------------------------------|---------------------------------|
| Location | Temp F | Hours | Mins | | | |
| PLANT | | | | | | MILL ANNEALED / DIRECT QUENCHED |
| LAB | 1650 | 2 | | | | WQ |
| LAB | 1325 | 16 | | | | AC |

| HT Code: 1800MB | | | | | Furnace Cool Rate Per Hrs (F) | Cool Code |
|-----------------|-----------|-------|------|--|----------------------------------------|---------------------------------|
| Location | Temp F | Hours | Mins | | | |
| PLANT | | | | | | MILL ANNEALED / DIRECT QUENCHED |
| LAB | 1800 | 1 | | | | WQ |
| LAB | 1325 | 16 | | | | AC |

| HT Code: 48A | | | | | Furnace Cool Rate Per Hrs (F) | Cool Code |
|--------------|-----------|-------|------|--|----------------------------------------|-------------------------------|
| Location | Temp F | Hours | Mins | | | |
| PLANT | | | | | | MILL ANNEALED/DIRECT QUENCHED |

MECHANICAL REMARKS

The tensile and hardness performed for Heat Treat Code 48A are As Shipped tests.

METALLOGRAPHY

GRAIN SIZE (As shipped cond.): Avg. ASTM 9

Tested at Acuren

MACRO

Material has been macro inspected and ultrasonic tested at intermediate billet to clear melt-type (piping, inclusions, etc.) defects.

REMARKS

Material has been produced, sampled, inspected, and tested in accordance with the customer purchase order and referenced specifications and conforms to the requirements unless otherwise noted in this certificate of test.

Any deviations to specification or customer purchase order requirements relative to testing, test values, hot working fixed practices, have been resolved in writing with customer prior to shipment.

The recording of false, fictitious, or fraudulent statements or entries on this document may violate Federal statutes, including but not limited to Title 18, Chapter 47 of the United States Code, and may be punishable as a felony.

If customer purchase order does not specifically reference a revision to a specification, ATI Allvac will work to the latest revision on file and in effect at time of order placement.

Test methods are per the latest ASTM Standards, currently recognized industry practices; or as agreed upon between ATI Allvac and customer.

Any chemical elements analyzed and found to have values below the actual limits of detection may be reported as < less than or reported at the detection level.

When values are reported to the significant places called for in the specifications, rounding will be done in accordance with ASTM E-29.

This is to certify that during manufacturing, handling, testing and inspection, this material did not come in direct contact with mercury or any device employing a single boundary of containment.

This Certificate of Test shall not be reproduced except in full, without the written approval of ATI Allvac Quality.

No weld repair has been performed on this material.

Material Safety Data Sheets (MSDS) - View or print from our site: www.allvac.com. Printed copies available on request from the ATI Allvac Sales Department.

Allvac products have not come in contact with radioactive, fertile or fissionable materials during manufacturing or processing.

This material was melted and manufactured in the United States of America unless otherwise noted in this Certificate of Test.

Traveler(s) Heat # Ingot#
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SPECIAL REMARKS

MELT METHOD: AOD/ESR

GEAR S-400 (GT193) supplier codes: Allvac Monroe - 87012, Allvac Lockport - T1226,
Acuren - T7605, Westmoreland T7869

TEST METHODS: C/S/O/N = ASTM E1019 (2011), XRF = ASTM E572 (2002A/2006*2), ASTM E322 (2012), ASTM E1085 (2009), ASTM E2465 (2011*1), OES = ASTM E415 (2008), ASTM E1086 (2008), GFAA = ASTM E1834 (2011), ICP-OES = ASTM E2594 (2009), ICP-MS = ASTM E2823 (2011); RTT = ASTM E8/E8M (2011); ETT = ASTM E21 (2009); Stress Rupture = ASTM E139 (2011), ASTM E292 (2009*1); Creep = ASTM E139 (2011); Charpy = ASTM E23 (2007A*1); Fracture Toughness = ASTM E399 (2009*2); Rockwell Hardness = ASTM E18 (2011); Brinell Hardness = ASTM E10 (2012); Microcleanliness = ASTM E45 (2011A); AMS 2300 = AMS 2300 (L); Grain Size = ASTM E112 (2010), ASTM E930 (1999/2007), ASTM E1181 (2002/2008); Macro = ASTM A604 (2007/2012); Sampling = AMS 2371J.



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HSMZ68

PAGE 1

SOLD TO:

002409
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

HISTORY REPRINT

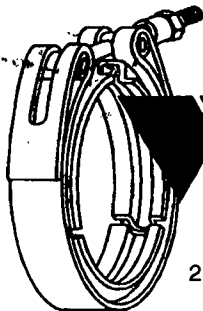
| ORDER NO. | | DATE | SHIP VIA | TERMS | | SHIPPING TERMS | | |
|------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|------|----------------|---------------|-------------|
| PO23495 | | 03/25/14 | FEDX INTL P1 COLL | NET 45 | | FOB-CARSON | | |
| ITEM NO. | QUANTITY ORDERED | PART NUMBER AND DESCRIPTION | | PRICE | UNIT | BACK ORDER | SHIPPED | AMOUNT |
| 15 | 225 | FED. TAX# 06-120-9796 MS21920-20 CLAMP TARIFF: 7318.15.2091 MFR: VOSS INDUSTRIES INC CTRL# : 1999G05264 LOT#: 42576 LOT QTY: 225 ECCN :9A991 <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i> ***BOLTS AND NUTS ***PARTS FOR CIVIL AIRCRAFT FREIGHT ACCT# 15179324-0 TEL# 613-632-3336 17128650 | | 7.500 | EA | 0 | 225 | 1,687.50 |
| emar | 8ZL7N7 | SHIPPED ON 03/25/14 | | | | | | |
| | | | | | | | SUBTOTAL: | 1,687.50 |
| | | | | | | | HANDLING: | 0.00 |
| | | | | | | | DISC/ALL: | 0.00 |
| | | | | | | | INCM FRT: | 0.00 |
| | | | | | | | FREIGHT : | 0.00 |
| | | | | | | | TOTAL: | 1,687.50USD |
| | | | | | | | U.S. CURRENCY | |
| MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE | | | | | | | | |

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 1351 CHARLES WILLARD ST, CARSON, CA 90746

DUPLICATE INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
www.beconsumables.com/cm/docs/BE_CM_Conditions_of_Sale.pdf



CERTIFICATE OF COMPLIANCE

REF: SWC 42576 C
Lot:

VOSS INDUSTRIES, INC.

Divisions: Voss Aerospace • Clamp Technology • H.E.A.T. (Heat Exchange Applied Technology)
2168 WEST 25TH STREET • CLEVELAND, OHIO 44113-4172 • 216/771-7655 • FAX: 216/771-2887

CUSTOMER:

TRISTAR AEROSPACE INC
PO BOX 542468
DALLAS TX 75354

REFERENCE:

CUSTOMER PURCHASE ORDER NO: AE167AV
CUSTOMER PART NO: MS21920-20
CUSTOMER (OR VOSS) DRAWING NO: MS21920-20
PART NAME: BAND CLAMP
VOSS PART NO: MS21920-20
NO. OF PIECES: 5000

REV. C

We hereby certify that parts and/or materials included in the above shipment have been manufactured and/or processed in compliance with all applicable purchase order and drawing specifications. In addition, data of chemical, physical and mechanical properties, where required, are on file for examination.

VOSS INDUSTRIES, INC.

DONALD G. HENSMAN
QUALITY ENGINEER

Title

Date

JULY 12, 1999

FORM: QF-60

White - Customer Copy; Canary - Office Copy; Pink - Shipping Copy;
Goldenrod - Shipping Copy; White - QC Copy